



MODERN HARDWARE  
*for* YOUR HOME



Mila Jackson 1987

# R-W Foreword

Is your home modern, *really* modern? Undoubtedly it is equipped with electric lights, hot and cold water, a furnace, bath and toilet, but how about those few extra touches which give your home the appearance of being up-to-the-minute in every particular? How about those conveniences which add so much to your comfort, and which, should the time ever come when you desire to sell, would make people *anxious* to buy your home? These few extra touches will increase the value of your home many hundreds of dollars.

It is with these improvements, few in number—but great in effect, that this booklet is concerned.

You will find that a careful study of the following pages can not help but be of value to you.

**Richards-Wilcox Mfg. Co.**  
A Hanger for any Door that Slides.

**AURORA, ILLINOIS, U.S.A.**

Minneapolis  
Philadelphia

Chicago  
Boston

New York  
St. Louis

Cleveland  
Indianapolis

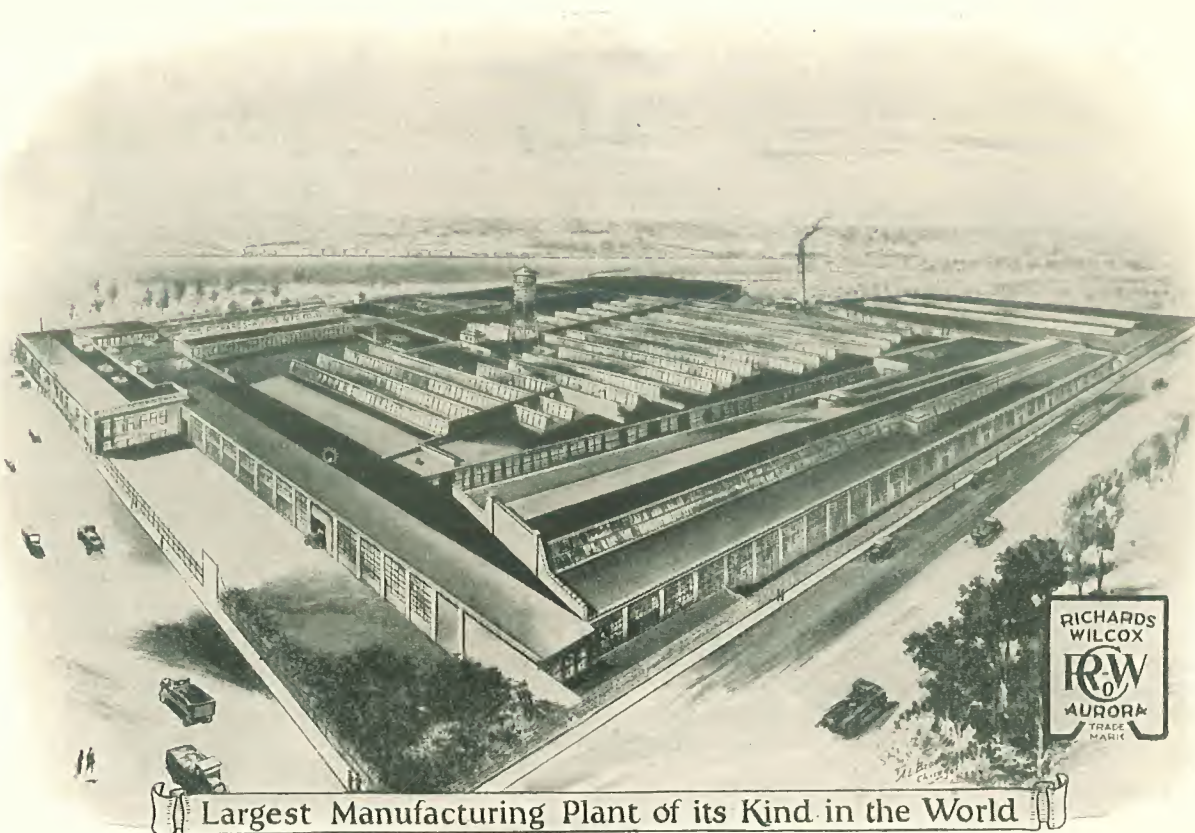
Los Angeles  
San Francisco

RICHARDS-WILCOX CANADIAN CO. LTD.  
Winnipeg LONDON, ONT Montreal

Richards-Wilcox Mfg. Co. Aurora, Illinois

# Modern Hardware for Your Home

Catalog No. A-33



Largest Manufacturing Plant of its Kind in the World

W. H. Fitch.....President and General Manager  
Lee Mighell.....Vice-President

Milton D. Jones.....Secretary and Treasurer  
P. L. Hoffman.....Superintendent

## BRANCHES

New York City.....85 Walker Street  
Chicago.....166-168 West Lake Street  
Philadelphia.....507 Arch Street  
Boston.....132-134 Pearl Street  
Cleveland.....459 Hippodrome Annex  
Kansas City.....203 Reliance Bldg.  
Omaha.....215 City Natl. Bank Bldg.

St. Louis.....1735 Boatmens Bank Bldg.  
Minneapolis.....321 Plymouth Bldg.  
Los Angeles.....503 Equitable Bldg.  
San Francisco.....626 Underwood Bldg.  
Indianapolis.....423-424 Occidental Bldg.  
Seattle.....1214 Hoge Bldg.  
Cincinnati.....Provident Bank Bldg.

## Canadian Plant

Richards-Wilcox Canadian Co., Ltd.....London, Ont.  
Branch Offices at Winnipeg and Montreal

## MAIN OFFICE AND WORKS:

AURORA, ILLINOIS, U. S. A.

"A Hanger for any Door that Slides"



## Richards-Wilcox Products

### For Homes

Multifold Window Hardware.  
Vanishing Door Hardware.  
Swing Door Checks.  
Stair Rail Brackets.  
Woodworking Vises, Benches.  
Kitchen Grindstones.  
Foot Scrapers.

### For Barns

Sliding Door Hardware.  
Gable Door Hardware.  
Wicket Door Hardware.  
Locks, Latches, Bolts.  
Hinges and Stay Rollers.  
Door Pulls and Handles.  
Door Stops and Holders.  
Stair Rail Brackets.  
Woodworking Vises, Benches.  
Mounted Grindstones.  
Malleable D Handles.  
Fence Stretchers.  
Wagon Jacks.

### For Private Garages

"Slidetite" Door Hardware.  
"SlydaSyde" Door Hardware.  
"CornR-Wise" Door Hardware.  
"Round-Runner" Door Hardware.  
Straight Sliding Door Hardware.  
Parallel Door Hardware.  
Flush Door Hardware.  
Wicket Door Hardware.  
Electric Door Operator.  
Locks, Latches, Bolts.  
Door Pulls and Handles.  
Door Stops and Guides.  
Door Checks and Holders.  
Woodworking Vises, Benches.  
Mounted Grindstones.  
Heavy Hinges.

### For Public Garages

"Slidetite" Door Hardware.  
Lift Door Hardware.  
Vertical Door Hardware.  
Horizontal Door Hardware.  
Electric Door Operator.  
Automobile Turn Table.  
Fire Doors.  
Automatic Fire Door Hardware.  
"Over-Way" Conveying Equipment.  
See "For Private Garages."

### For Schools, Churches

Parallel Door Partition Hardware.  
Accordion Door Partition Hardware.  
Flush Door Partition Hardware.  
Wardrobe House Door Hardware.  
Vanishing House Door Hardware.  
Multifold Window Hardware.  
Swing Door Checks.  
Stair Rail Brackets.  
"Ideal" Elevator Door Hangers.  
"Ideal" Elevator Door Controllers.  
Electric Theatre Curtain Operator.  
Fire Doors, Fusible Links.

"Lowe" Automatic Fire Door Release.  
Automatic Fire Door Hardware.  
Woodworking Vises and Benches.  
Grindstones and Grinders.  
"Over-Way" Conveying Systems.

### For Sanitariums, Hospitals

Parallel, Accordion and Flush Partition Door Hardware.  
Vanishing House Door Hardware.  
"Ideal" Elevator Door Hangers.  
"Ideal" Elevator Door Controllers.  
Automatic Fire Door Hardware.  
"Lowe" Automatic Fire Door Release.  
Fire Doors, Fusible Links.  
Multifold Window Hardware.  
Swing Door Checks.  
Door Stops and Holders.  
Stair Rail Brackets.  
Heavy Hinges.

### For Business Houses

Sliding Door Hardware.  
Wicket Door Hardware.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
"Lowe" Automatic Fire Door Release.  
Swing Door Checks, Holders.  
Heavy Hinges.  
Stair Rail Brackets.  
Elevator Door Hardware.  
Elevator Door Controllers.  
Rolling Store Ladders.  
Multifold Window Hardware.  
"Over-Way" Conveying Systems.  
Woodworking Vises, Benches.

### For Office Buildings

"Ideal" Elevator Door Hangers.  
"Ideal" Elevator Door Controllers.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
"Lowe" Automatic Fire Door Release.  
Swing Door Checks.  
Vanishing House Door Hardware.  
Stair Rail Brackets.  
Rolling Store Ladders.  
Heavy Hinges.  
Multifold Window Hardware.  
Electric Theatre Curtain Operator.

### For Fire Stations

Hardware for Automatic Fire Station Doors.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
Stair Rail Brackets.  
Heavy Hinges.  
Swing Door Checks.  
Door Holders.  
Mounted Grindstones.

### For Shops

"Over-Way" Conveying Systems.  
I-Beam Trolleys.  
Mounted Grindstones.  
Woodworking Vises, Benches.  
Sliding Door Hardware.

Lift Door Hardware.  
Heavy Hinges.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
Wicket Door Hardware.  
Swing Door Checks.  
Locks, Latches, Bolts.  
Door Pulls, Handles.  
Door Stops, Guides, Holders.

### For Industrial Plants

Vertical Door Hardware.  
Horizontal Door Hardware.  
"PieR-Work" Door Hardware.  
Lift Door Hardware.  
Wicket Door Hardware.  
Electric Door Operator.  
Swing Door Checks.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
"Lowe" Automatic Fire Door Release.  
"Over-Way" Conveying Systems.  
I-Beam Trolleys.  
Chain Hoists.  
Dumping Buckets.  
Mounted Grindstones.  
Woodworking Vises, Benches.  
Rolling Store Ladders.  
Heavy Hinges.  
Stair Rail Brackets.  
Malleable D Handles.

### For Warehouses

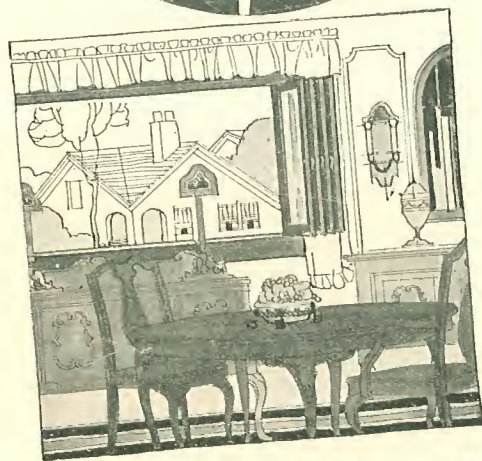
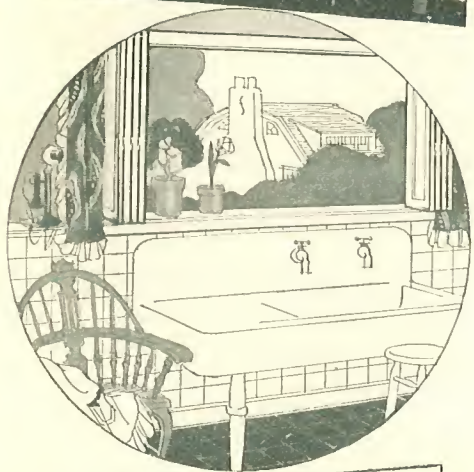
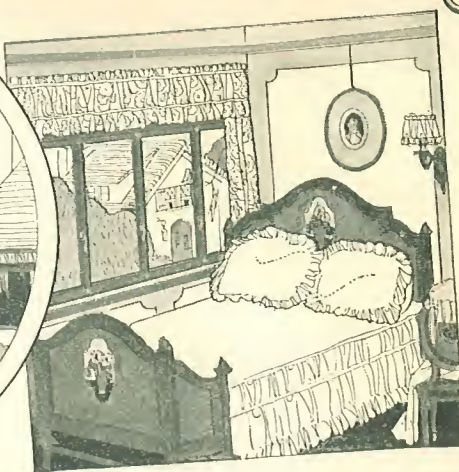
Warehouse Door Hardware.  
Parallel Door Hardware.  
Vertical Door Hardware.  
Horizontal Door Hardware.  
Folding Door Hardware.  
"PieR-Work" Door Hardware.  
Lift Door Hardware.  
"Monarch" Mill-Type Doors.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
"Over-Way" Conveying Systems.  
I-Beam Trolleys.  
Heavy Hinges.  
Mounted Grindstones.  
Swing Door Checks.  
Door Stops, Holders, Locks.  
Stair Rail Brackets.

### For R. R. Entrances, Round Houses

Round House Door Hardware.  
Heavy Hinges.  
Warehouse Door Hardware.  
Lift Door Hardware.  
"Monarch" Mill Type Doors.  
Fire Doors, Fusible Links.  
Automatic Fire Door Hardware.  
"Over-Way" Conveying Systems.  
I-Beam Trolleys.  
Swing Door Checks.  
Door Stops, Holders, Locks.  
Mounted Grindstones.  
Malleable D Shovel Handles.

*If you have not received one of our No. 30 General Catalogs, one will be gladly sent upon request.*





## The Modern Window for Universal Use

How light, airy and attractive appear the various rooms illustrated on this page, and the actualities . . . are just as charming!

"AiR-Way" Multifold Window Hardware is responsible for these happy results.

The rooms in your old home, or in a new home which perhaps you will soon build, can be made just as pleasant as those here portrayed.

Do you know that so great is now the desire for fresh air, that persons who can afford it, eat many meals out on the terrace, in the pergola or summer house, while they sleep on spacious sleeping porches where the breezes may come in from three directions?

Today, due to the invention of "AiR-Way" Multifold Windows, there is no reason why people, of even moderate means, should deny themselves the pleasure of plenty of fresh air, day or night.

"AiR-Way" windows are desirable not only for the sleeping porch, bedroom and dining room but for every room in the house, kitchen, living room, sewing room or sun-parlor.

Wherever windows are used "AiR-Way" can be employed to advantage.

This multifold window equipment is ideal not only for home but for use in hotels, hospitals, sanatoriums, club houses, dance halls and pavilions.

Why not "Throw open the side of your house . . . and let the out doors in?" "AiR-Way" will do it for you.





## What Users Say About "AiR-Way"

The letter quoted below is typical of many which we have received from satisfied home-owners:

Milton, Penn.

"I mailed to you today, under separate cover, a photograph of my sun room in which I installed the hardware which I purchased from you.

"I want to say to you again that I am certainly well pleased with the hardware. I have had absolutely no trouble in opening the windows and everyone who has seen the lay-out say they have never seen anything like it. We practically lived in the sun room all summer and the combinations we were able to make for ventilation were most unusual.

"Yours very truly,

"W. W. Wilson."



### Here Is What Another Owner Says:

"We do not believe that there is anybody in the United States who appreciates AiR-Way multifold window hardware more than our family," says W. E. Frost. "Our house faces east and south, which is the prevailing direction of the storms in this section, and formerly every time there was a thunder shower or storm we had a drenched porch, as the rain would blow three-quarters of the way across it and flood the floor. It was impossible to keep a varnished floor or any kind of furniture in the porch as the weather ruined it.

"Now when it rains we have an enclosed room. And in pleasant weather we have an open porch. During the winter months in the chilly morning we have a room that is easily heated up with a Perfection Oil Heater.

"We have yet to have the first person come on this porch who has not been struck with the arrangement of the windows. I took an architect out there the other day, who declared that in the future on all of his open work he will use the AiR-Way fixtures."



"A Hanger for any Door that Slides"



### Like Dining Out-of-Doors

The windows of the modern dining room are equipped with *Air-Way Multifold Window Hardware*. Thus they may be thrown wide open to the gentle, cooling breezes, affording all the comforts of outdoor dining while retaining the conveniences of the indoor dining room.

On stormy days and in winter, snug-fitting *Air-Way* windows exclude all rain, wind and cold. They're absolutely weather-tight and rattle-proof when closed.



### Sunshine by Day—

Showing how the bedroom with *Air-Way* equipped windows may quickly be converted into an airy sleeping porch.

### Fresh Air by Night



### Kitchen Comfort All the Year

*Air-Way Multifold Window Hardware* brings all the comfort of grandmother's outdoor summer kitchen to the modern home. *Air-Way* equipped windows enable you to quickly convert your hot, stuffy kitchen into a pleasant, breezy porch.

AIRWAY



Richards-Wilcox Mfg. Co. Aurora, Illinois

## Let the Outdoors In With "AiR-Way" Multifold Windows



**Sash Thrown Wide Open**

Opened to give the open porch effect. Notice that there are no mullions or other obstructions in the opening. Window screens can be used if desired, as the operation of "AiR-Way" windows in no way interferes with them.



**Sash Tightly Closed**

Storm-tight—The sash are tightly sealed against the wind, rain or cold. See illustration on page 11 for tight application of sash.

AIRWAY



"A Hanger for any Door that Slides"

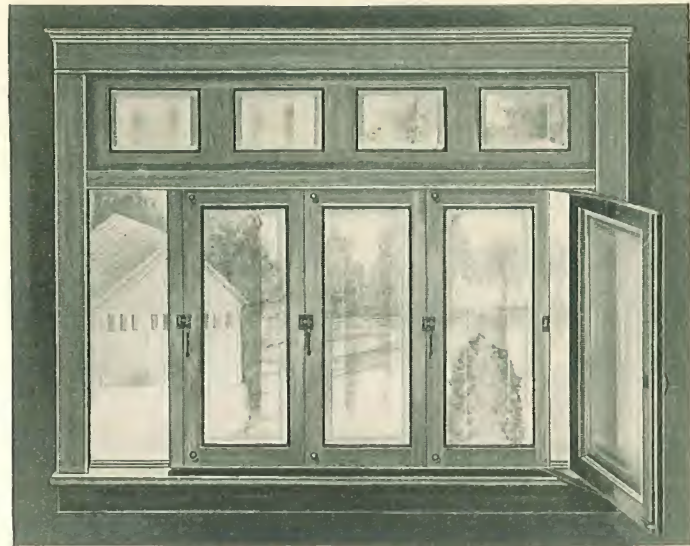
## Interior Views

In each series or group of sash, the sash hinged to the window casing is opened first. The remaining sash of the series slide toward this end sash when it is opened

The second sash has now been opened. The third and fourth sash open in the same manner, as shown by the top illustration on opposite page.

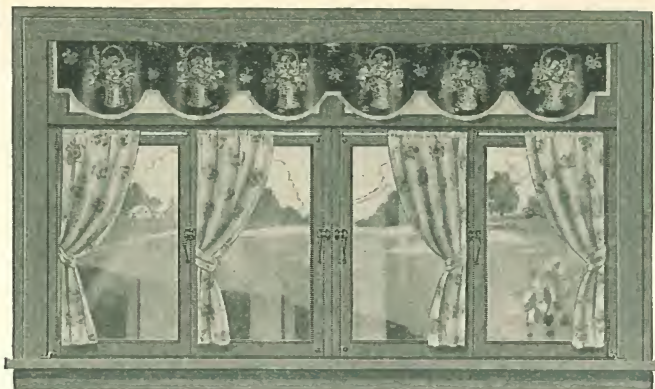
All of the sash of one series may be partly opened so as to have full ventilation and at the same time avoid the direct force of the wind.

Wind and draught will not blow sash from position you leave them in; they will stand immovable in any position, open, partly opened or closed, without locks or holders.



AIRWAY





## Drapery Suggestions

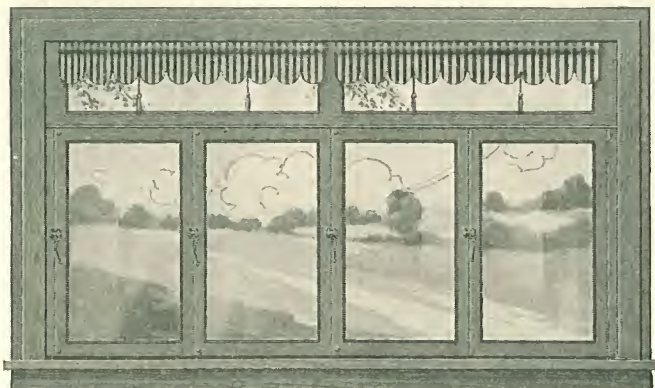
### Lambrequin on Transom, Drapes on Individual Sash

Flowered or Figured "Cut-Out" Lambrequin of Cretonne with "Tie-Back" Curtains of Flowered Marquisette.



### Lambrequins and Tie-Back Drapes

Lambrequins of Diana or Terry Cloth. Drapes of Curtain Goods, Grenadine or Pongee.



### Scalloped Shades on Transom

Choice of—

Duplex (Two-Tone) Shade Cloth,  
Holland Linen, all colors, or  
Hand Opaque Cloth.



### Fancy Scalloped Lambrequins

Diana Cloth, Terry Cloth, or Cretonne offer many pleasing patterns.

*We do not furnish Lambrequins, Shades or Curtains.*

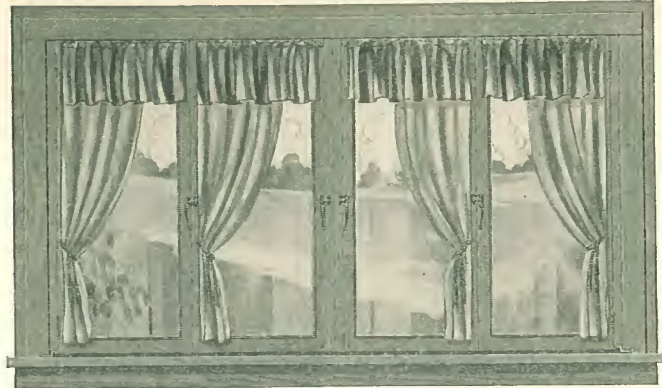


"A Hanger for any Door that Slides"

## Drapery Suggestions

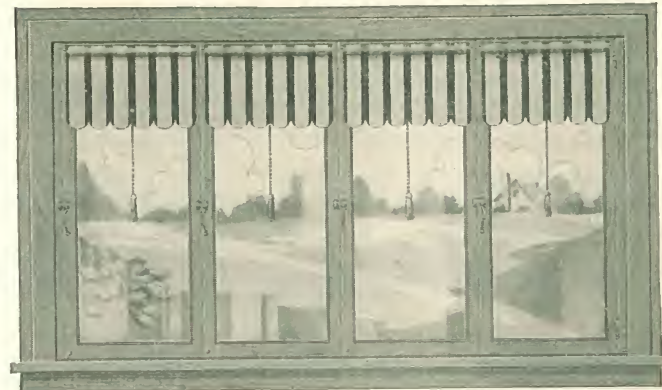
### Shirred Lambrequins with Tie-Back Curtains

Lambrequins of the same color but of a darker shade than the curtains, of colored Madras. Many beautiful combinations are possible.



### Individual Scalloped Shades

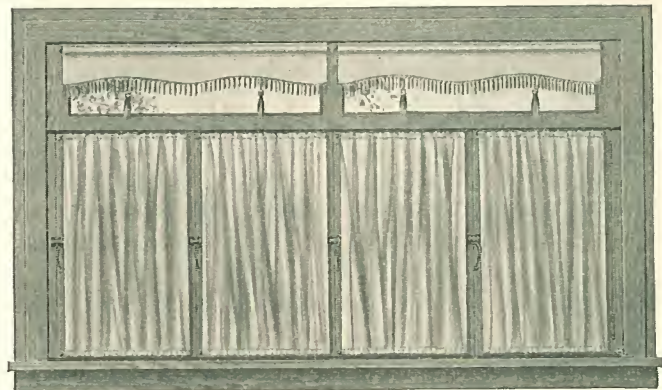
Astrakhan Cloth is charming—and very satisfactory. Striped Denim is unique.



### Scalloped Shades with Gathered Curtains

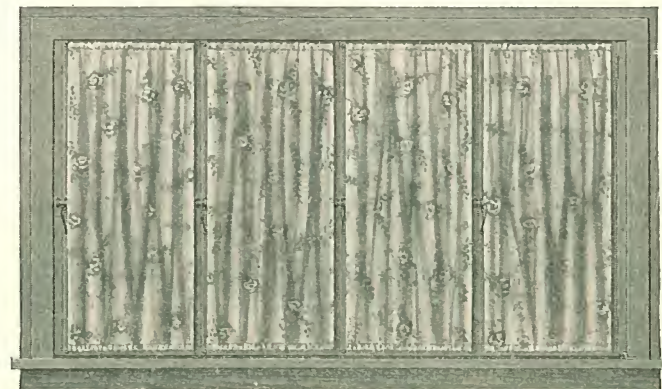
Shades of Holland Linen, Duplex or Hand Opaque Cloth.

Curtains of Swiss, Grenadine or Shadow Tuscan.



### Shirred Curtains for Individual Sash

There are many handsome curtain materials to choose from, but of them all, none is more beautiful than Shadow Fibre Silk.



*We do not furnish Lambrequins, Shades or Curtains.*

AIRWAY



# The Simple Construction and Easy Working of "AiR-Way" Multifold Window Equipment

10

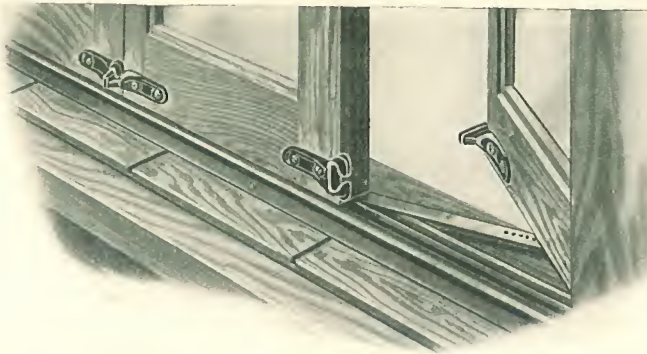
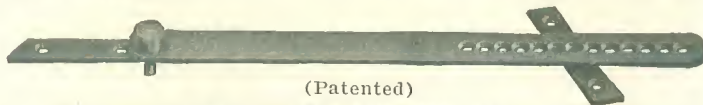


Fig. 1. Exterior view shows where sash links, which connect the series of sash, are applied. The link at the top of each sash is applied parallel with and works on the same principle as the link at the bottom of each sash. Also note the metal track and safety locks.



(Patented)

Fig. 2. Adjustable Sash Link. One of these links connects each sash, at the top and bottom, with the sash adjacent.



Fig. 3. Safety Lock.

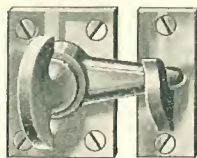


Fig. 4. Thumb Fastener.

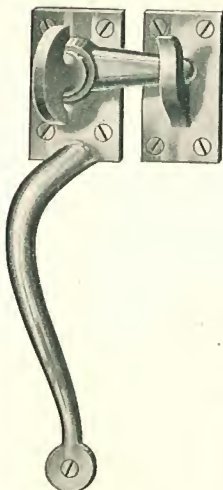


Fig. 5. Fastener with bow handle.

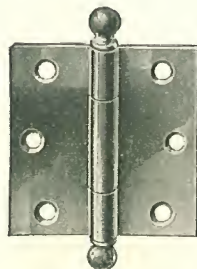


Fig. 6. Butt Hinge.



Fig. 7. Chafing Plate.

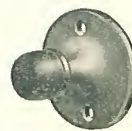


Fig. 8. Rubber Stop.



Fig. 9. Sill Stop.

THE "AiR-Way" method of operating a series of windows in a row is far in advance of existing older methods.

Instead of hanging each sash independently on hinges which require a number of solid mullions or jambs, this new scheme is to connect several sash in a series (as illustrated on previous pages), so that they can be folded up and leave a clear space much larger than the space obtainable by the old method.

In a living room, for example, a wide opening can be made almost the width of the room, but this large space can be covered in a moment by a series of folding windows, which when not in use, are folded up conveniently at the side of the opening.

## How Accomplished

Just a word as to the means by which this is accomplished. First there is a piece of track fitted on to the lintel on the top frame, and a similar piece of track is fitted on to the sill at bottom of frame as shown in Figs. 10 and 11 on opposite page.

The sash are connected together by adjustable sash links (see Fig. 2), which are attached to the sash in the manner shown in Fig. 1. These links connect the sash together both top and bottom. You will notice on the adjustable sash link (Fig. 2) a little wheel. These wheels run in the top track and bottom track previously referred to. That is what keeps the sash in place. The end sash nearest the jamb is fastened to jamb or side frame by hinges and this sash is the first one to be opened. As this sash swings, the link which connects it with the next one in the series pulls the entire string of sash in that direction.

## Special Locking Feature

As soon as the first sash is opened, even two or three inches, the second sash may be partly opened in the same way and this in turn releases the lock which holds the third sash and so on. But the sash must be opened in order. The advantage of this arrangement is that when the sash are all closed, locking the end sash locks the entire series against incorrect operation.

(Continued on next page)





"A Hanger for any Door that Slides"

## This Installation Will Materially Increase the Selling Value of Your Home

As the several windows are opened they follow each other across the opening until finally all of the sash are lined up compactly in a small space at end of the opening out of the way.

It is to be noted, especially, that each sash will remain in the position to which it is opened without shaking or rattling. You may have one, two or more windows opened without opening the entire series if desired.

### Do Not Interfere With Screens

It is an important advantage of this method of hanging windows, that they do not interfere with screens or storm sash. When sash are mounted to fold outside, it is impossible to use screens unless they are mounted *inside*, in which case, it is either necessary to move the screens in order to operate the windows or else to install an expensive operating device in the sill.

### Size Sash Should Be

"AiR-Way" hardware is applied to any number of sash the builder may want to place in a row, but we recommend that not more than four sash of maximum width be installed to form a string sliding one way. Five sash may be used if the total width of the series does not exceed 8 feet. Height of the window does not affect the operation of this hardware, but the hardware is designed for sash not more than 12 square feet in area and maximum width of sash not to exceed 24 inches. It is advisable to keep each opening within the limitation of a span 11 feet in width for windows having transom sash when our standard design of transom bar is used, or 16 feet 6 inches for windows having no transom sash and a total vertical sash height of five feet.

### The Cost

As to the cost of the material, it does not cost much more, if any more, to put up "AiR-Way" windows than to put up the ordinary swing casements, provided they are equipped with the same quality of hardware that we supply on the "AiR-Way" sets.

The finest "AiR-Way" hardware is solid brass. Tracks and storm threshold are solid brass, and will, therefore, not rust or deteriorate.

Other parts of the hardware are made in three finishes; solid brass, brass plated and dead black, but for permanent satisfaction we recommend the set in solid brass.

A List Price of hardware is found on each page where complete sets are shown.

List Price of Parts		Finish No. 1	Finish No. 2	Finish No. 3
No. 312.	Bow Handle Fasteners, each.....	\$2.50	\$2.00	\$1.75
No. 312.	Thumb Fasteners, each.....	1.80	1.10	.90
No. 312.	Chafing Plates, each.....	.40	.30	.20
No. 312.	Rubber Stops, each.....	.80	.60	.40
No. 312.	Sill Stops, each.....	.80	.60	.40
No. 312.	Safety Locks, each.....	1.60	1.20	.80
No. 312.	Sash Links, each.....	2.50	2.00	1.50
No. 312.	Butt Hinges, per pair.....	2.60	.60	.60
No. 312.	Storm Thresholds, per foot.....	.50	...	...
No. 312.	Lower Track, per foot.....	.80	...	...
No. 312.	Upper Track, per foot.....	.60	...	...

### Finishes

Finish No. 1—Solid Brass, Safety Locks, dull brass. Tracks and Thresholds, natural brass finish. All other parts brushed brass finish.

Finish No. 2—Safety Locks, solid brass, dull brass finish. Tracks and Thresholds, natural brass finish. All other parts plated brushed brass finish.

Finish No. 3—Tracks and Thresholds, natural brass finish. All other parts dull black, imitation-Bauer-Barrf finish.

A set of working Blue Prints giving Construction Data will be furnished upon request.

### Discount .....

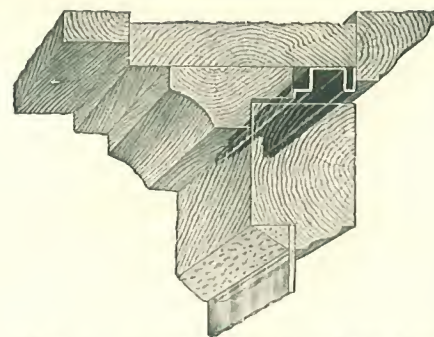


Fig. 10. Cross-section through sash and window frame at top showing installation of "AiR-Way" track above sash and tight application of sash.

### Mill Work

The operation of windows hung on "AiR-Way" Multifold Hardware is extremely simple, but it is, of course, necessary that the sash and frames should be properly made and the hardware properly put on. It is best that the sash and frames be made by the millman and that the sash be fitted in the frame and the hardware put on at the mill. The work can then be shipped to the job and erected easily into the outer frame. This insures a tight job and one that will operate smoothly.

We supply a full set of blue prints for the millman so that he will know exactly how to make the sash and frames and how to attach the hardware. It is not a difficult job if the instructions are followed.

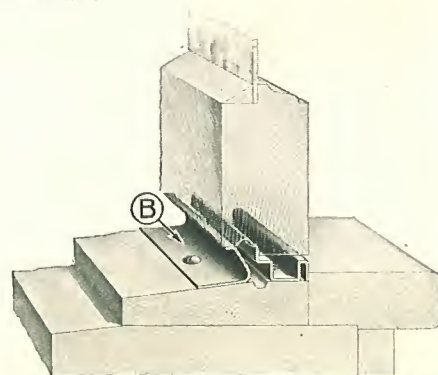


Fig. 11. Cross-section through sash and window frame at bottom showing installation of "AiR-Way" track below sash and tight application of sash using brass threshold or storm sill. Note arched groove in bottom of sash just back of threshold. This groove obviates the possibility of moisture following the bottom of the sash.

AIRWAY



# R-W No. 312 "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 4' 3" Wide by 5' High

## 2-Sash, Folding One Way

Same Hardware Can Be Used on Sash Opening to Right or to Left

We recommend that sash be about 20" wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in 4' 3" lengths.

### Material Furnished

4 Sash Links	1 Safety Lock
2 Butt Hinges	1 Sill Stop
2 Rubber Stops	1 Chafing Plate
2 Fasteners with Bow Handles	1 Pc. Upper Track
1 Pkg. Assorted Screws	1 Pc. Lower Track
1 Set of Erection Details	1 Pc. Threshold

### List Price

2-Sash Set.—Hardware complete for opening not over 4' 3" wide (between finished frames) x 5' high.

Weight, per set, 11 lbs.

Finish No. 1—Solid Brass, per opening.....\$22.60

Finish No. 2—Brass Plated, per opening..... 18.00

Finish No. 3—Black, per opening..... 16.00

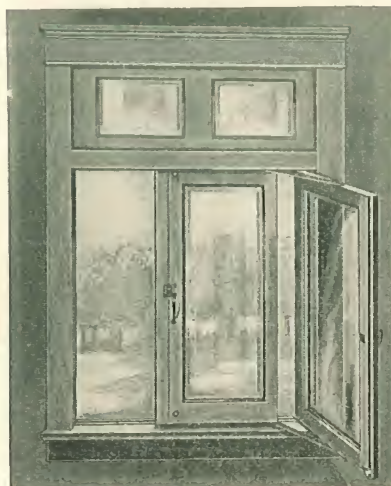
Same hardware can be used on sash opening to right or to left

Discount.....

12



Sash Closed

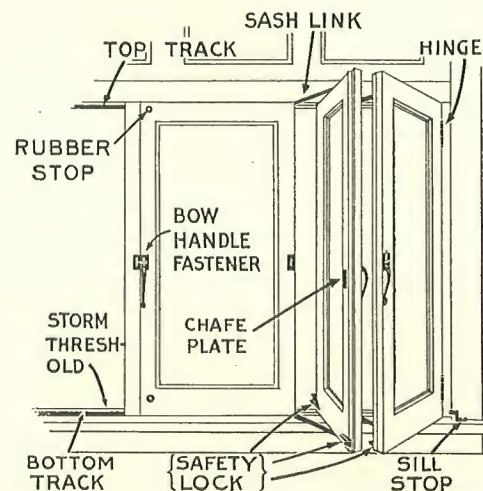


Sash Partly Opened



Sash Wide Open

*Drapery  
Arrangement  
Suggestions  
Shown on  
Pages 8 and 9*





"A Hanger for any Door that Slides"

R-W No. 312

# "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 6' 3" Wide by 5' High

## 3-Sash, Folding One Way

Same Hardware Can Be Used on Sash Opening  
to Right or to Left

We recommend that sash be about 20" wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Track and Thresholds are sent in 6'3" lengths.

### Material Furnished

6 Sash Links	2 Safety Locks
2 Butt Hinges	1 Sill Stop
4 Rubber Stops	2 Chafing Plates
3 Fasteners with Bow Handles	1 Pc. Upper Track
1 Pkg. Assorted Screws	1 Pc. Lower Track
1 Set of Erection Details	1 Pc. Threshold

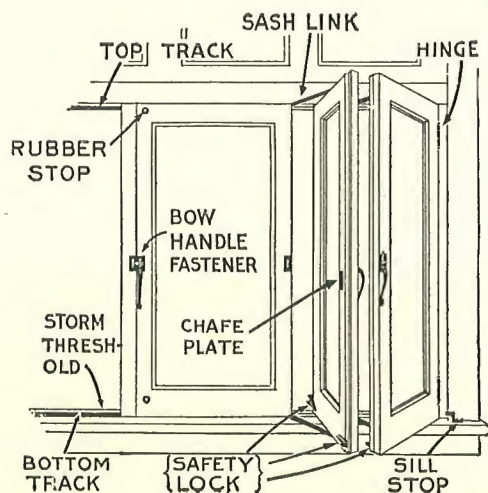
### List Price

3-Sash Set—Hardware complete for opening not over 6'3" wide (between finished frames) x 5' high.

Weight, per set, 16½ lbs.

Finish No. 1. Solid Brass, per opening.....	\$32.60
Finish No. 2. Brass Plated, per opening.....	26.70
Finish No. 3. Black, per opening.....	23.70

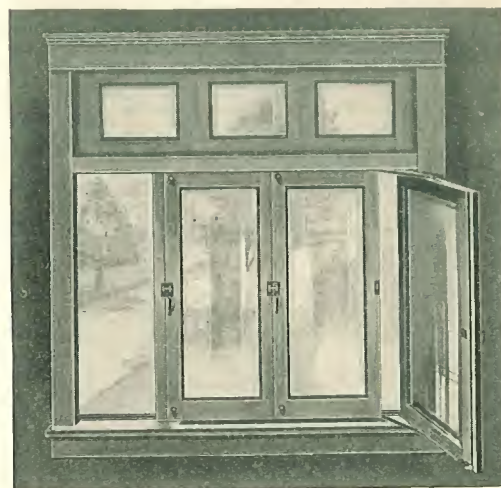
Discount.....



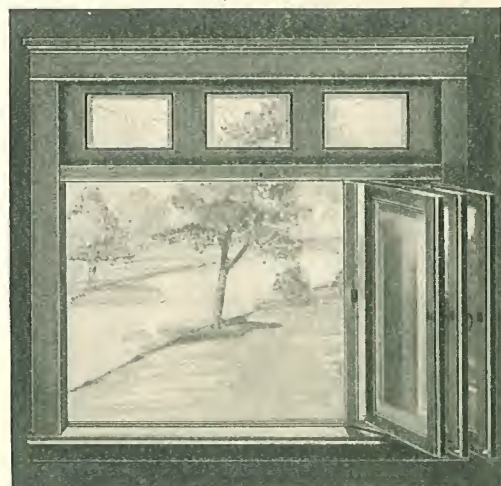
Sash are Weather  
Tight and Rattle  
Proof When  
Closed



Sash Closed



Sash Partly Opened

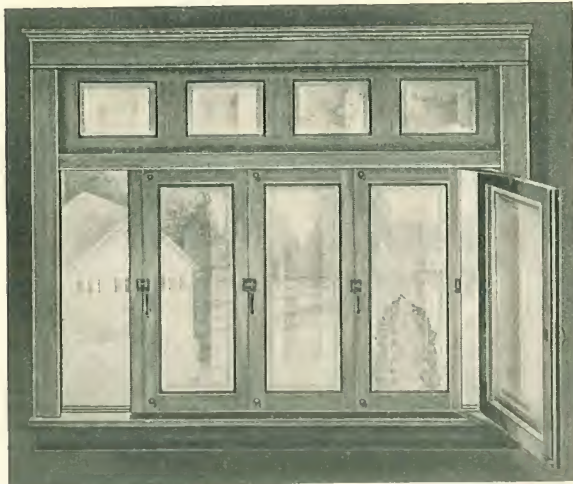


Sash Wide Open

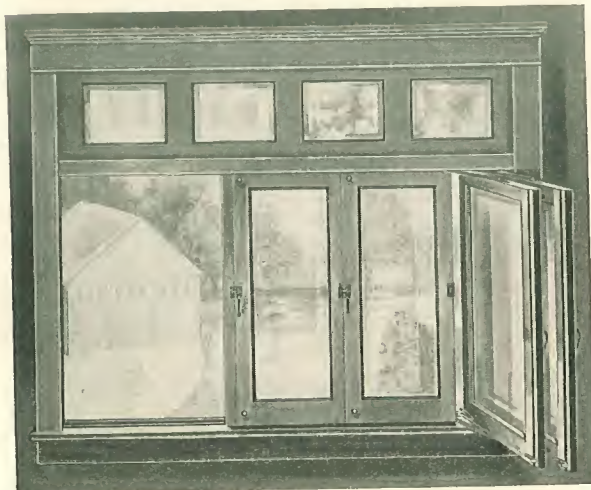


R-W No. 312  
**"AiR-Way" Multifold Window Hardware**  
 For Opening Not Exceeding 8' 3" Wide by 5' High

14



One Sash Opened.



Two Sash Opened.



All Sash Partly Opened.

**4-Sash, Folding One Way**

Same Hardware Can Be Used on Sash Opening to Right or to Left

We recommend that sash be about 20 inches wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in 8 foot 3 inch lengths.

**Material Furnished**

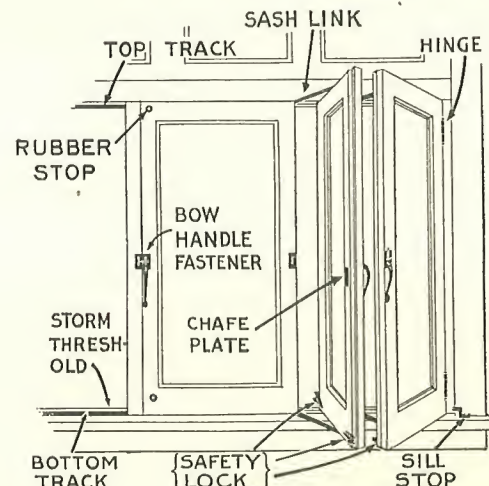
8 Sash Links	3 Safety Locks
2 Butt Hinges	1 Sill Stop
6 Rubber Stops	3 Chafing Plates
4 Fasteners with Bow Handles	1 Pc. Upper Track
1 Pkg. Assorted Screws	1 Pc. Lower Track
1 Set of Erection Details	1 Pc. Threshold

**List Price**

*4-Sash Set*—Hardware complete for opening not over 8 feet 3 inches wide (between finished frames) by 5 feet high. Weight, per set, 21½ lbs.

Finish No. 1. Solid Brass, per opening.....	\$42.60
Finish No. 2. Brass Plated, per opening.....	35.40
Finish No. 3. Black, per opening.....	31.40

Discount.....





"A Hanger for any Door that Slides"

R-W No. 312

## "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 8' 6" Wide by 5' High

### 4-Sash

#### 2-Sash Folding Each Way

Two 2-Sash Sets Will Accomplish the Same Results

We recommend that sash be about 20 inches wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in two lengths, each 4 feet 3 inches long.

#### Material Furnished

8 Sash Links	2 Sill Stops
4 Butt Hinges	2 Chafing Plates
4 Rubber Stops	2 Pcs. Upper Track
4 Fasteners with Bow Handles	2 Pcs. Lower Track
1 Pkg. Assorted Screws	2 Pcs. Threshold
2 Safety Locks	Set of Erection Details

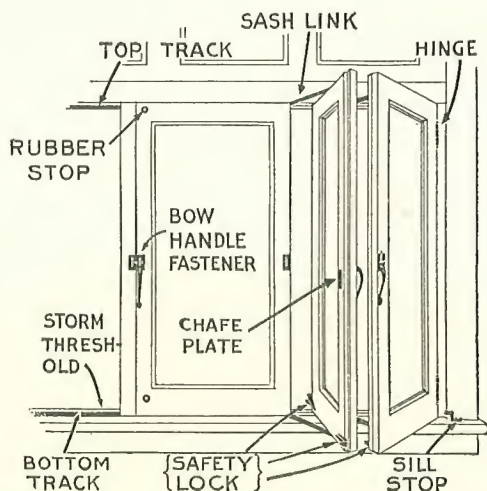
#### List Price

4-Sash Set (2 folding each way)—Hardware complete for opening not over 8 feet 6 inches wide (between finished frames) by 5 feet high.

Weight, per set, 22½ lbs.

Finish No. 1.	Solid Brass, per opening.....	\$15.20
Finish No. 2.	Brass Plated, per opening.....	36.00
Finish No. 3.	Black, per opening.....	32.00

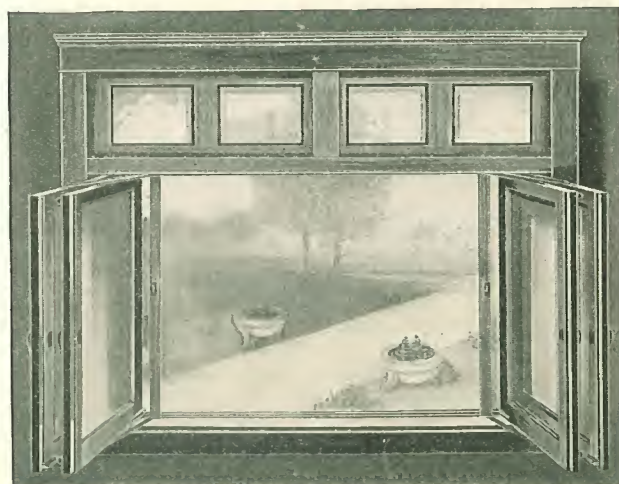
Discount .....



Sash Closed.



Two Sash Closed—Two Sash Open.



All Sash Wide Open.

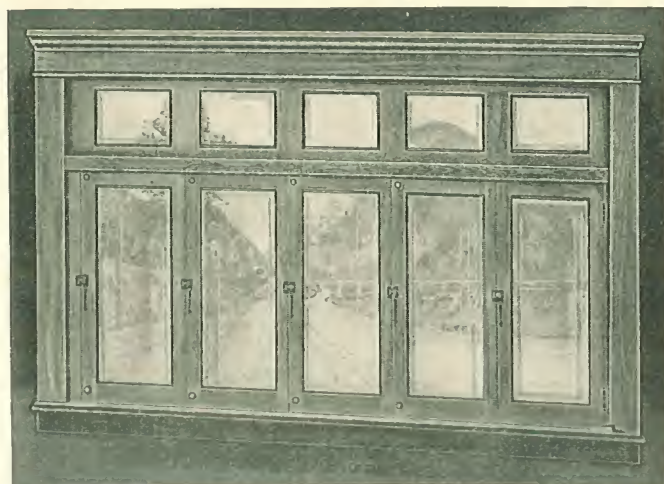


R-W No. 312

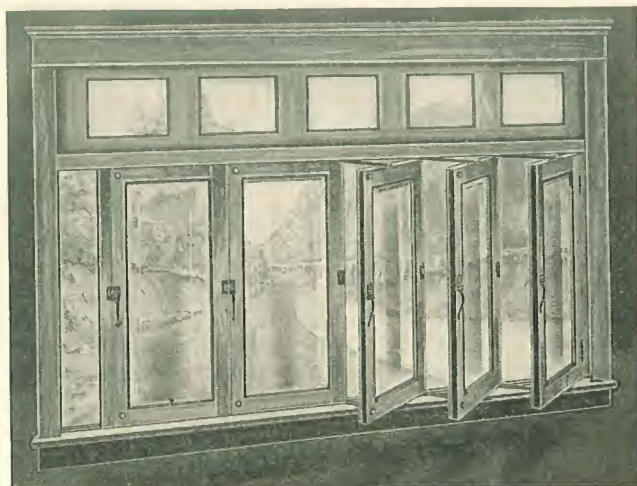
# "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 8' 3" Wide by 5' High

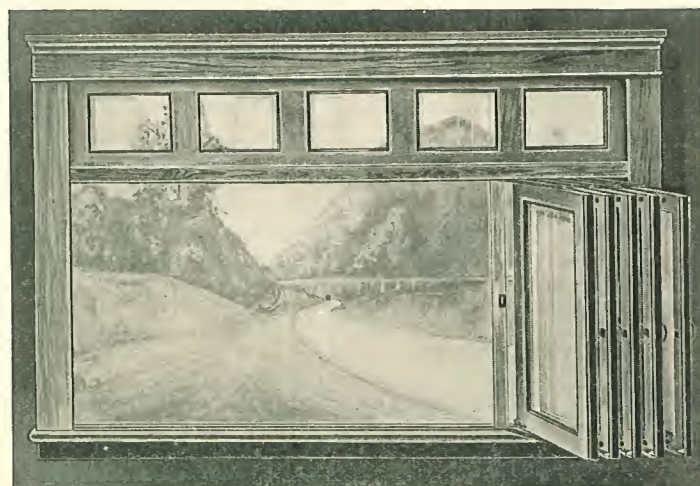
16



Sash Closed.



Two Sash Closed—Three Sash Partly Open.



All Sash Wide Open

## 5-Sash

### Folding One Way

Same Hardware Can Be Used on Sash Opening to Right or to Left

We recommend that sash be about 20 inches wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in 8 foot 3 inch lengths.

### Material Furnished

10 Sash Links	1 Sill Stop
2 Butt Hinges	4 Chafing Plates
8 Rubber Stops	1 Pc. Upper Track
5 Fasteners with Bow Handles	1 Pc. Lower Track
1 Pkg. Assorted Screws	1 Pc. Threshold
4 Safety Locks	Set of Erection Details

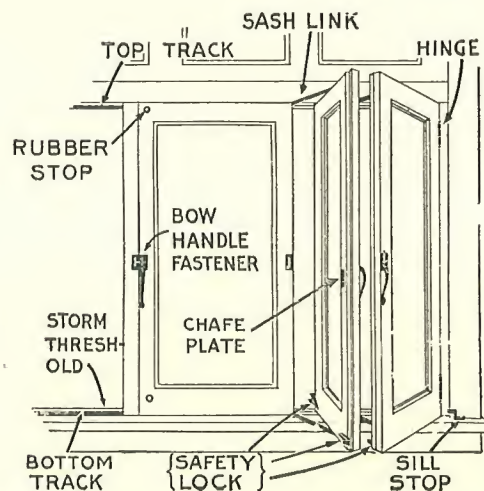
### List Price

5-Sash Set—Hardware complete for opening not over 8 feet 3 inches wide (between finished frames) by 5 feet high.

Weight, per set, 24 lbs.

Finish No. 1. Solid Brass, per opening.....	\$51.60
Finish No. 2. Brass Plated, per opening.....	43.10
Finish No. 3. Black, per opening .....	38.10

Discount .....



AIRWAY



"A Hanger for any Door that Slides"

R-W No. 312

## "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 12' 6" Wide by 5' High

### 6-Sash

#### 3-Sash Folding Each Way

Two 3-Sash Sets Will Accomplish the Same Results

We recommend that sash be about 20" wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in two lengths, each 6'3" long.

#### Material Furnished

12 Sash Links	4 Safety Locks
4 Butt Hinges	2 Sill Stops
8 Rubber Stops	4 Chafing Plates
6 Fasteners with Bow Handles	2 Pcs. Upper Track
1 Pkg. Assorted Screws	2 Pcs. Lower Track
1 Set of Erection Details	2 Pcs. Threshold

#### List Price

6-Sash Set—Hardware complete for opening not over 12'6" wide (between finished frames) x 5' high.

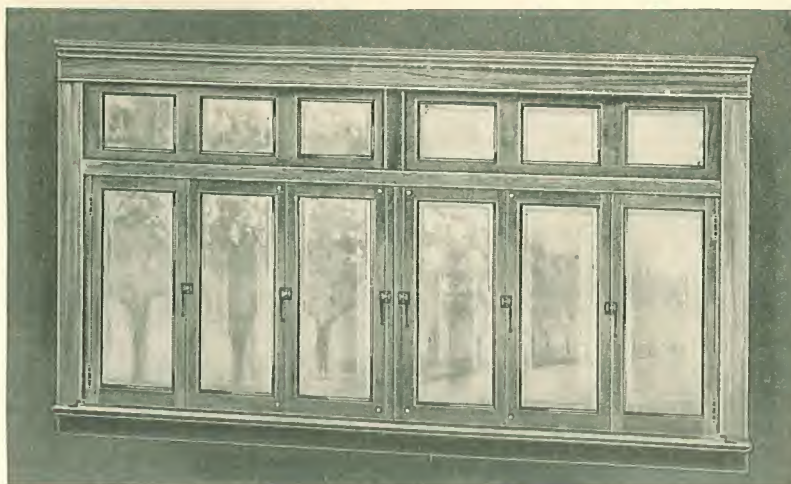
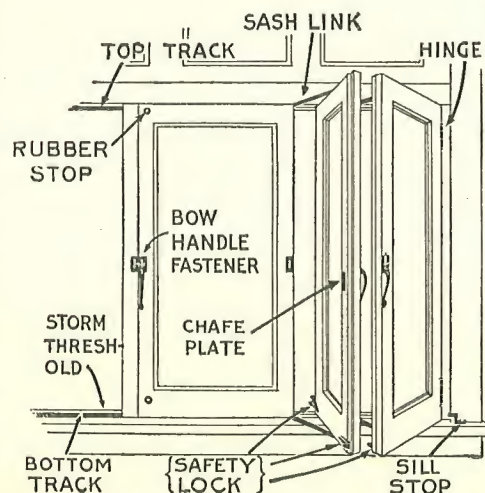
Weight, per set, 33 lbs.

Finish No. 1. Solid Brass, per opening .....\$65.20

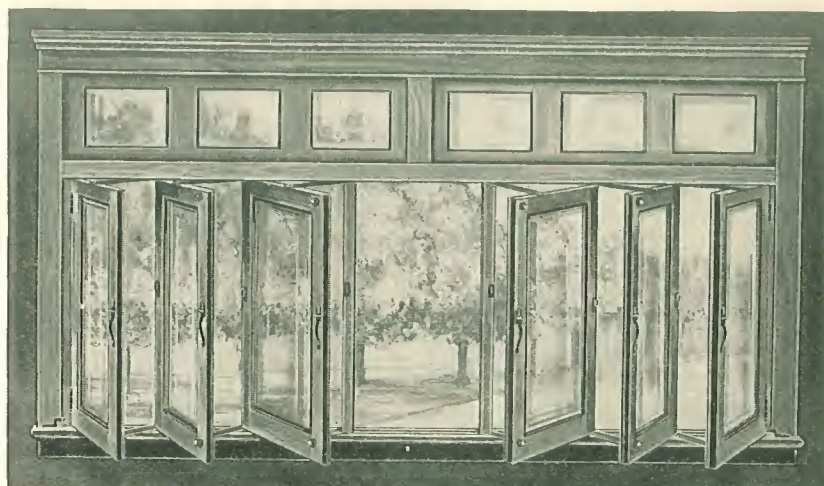
Finish No. 2. Brass Plated, per opening ..... 53.40

Finish No. 3. Black, per opening... 47.40

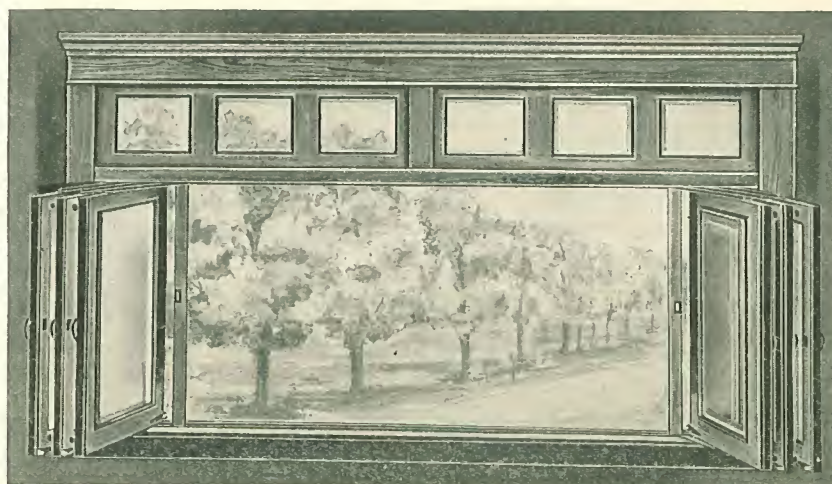
Discount.....



Sash Closed



All Sash Partly Open



All Sash Wide Open



Richards-Wilcox Mfg. Co. Aurora, Illinois

# R-W No. 312 "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 16' 6" Wide by 5' High

## 8-Sash

4 Sash Folding Each Way

Two 4-Sash Sets Will Accomplish the Same Results

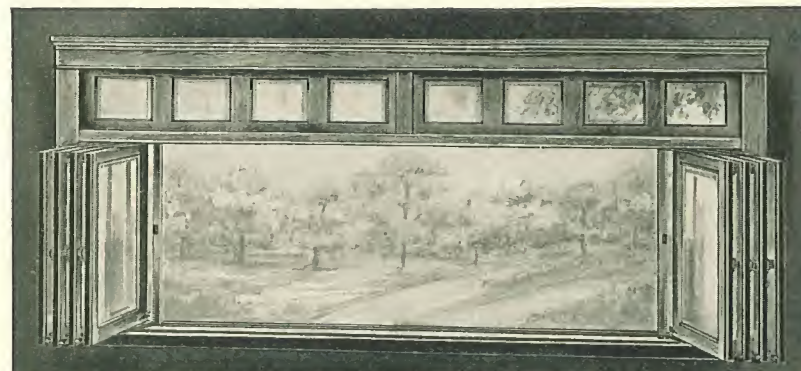
18



Sash Closed.



Sash Partly Open.



Sash Open Wide.

We recommend that sash be about 20 inches wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in two lengths, each 8 feet 3 inches long.

### Material Furnished

16 Sash Links	2 Sill Stops
4 Butt Hinges	6 Chafing Plates.
12 Rubber Stops	2 Pes. Upper Track
8 Fasteners with Bow Handles	2 Pes. Lower Track
1 Pkg. Assorted Screws	2 Pes. Threshold
6 Safety Locks	Set of Erection Details

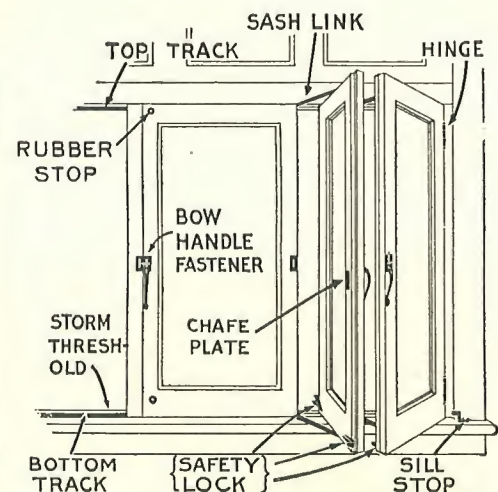
### List Price

8-Sash Set—Hardware complete for opening not over 16 feet 6 inches wide (between finished frames) by 5 feet high.

Weight, per set, 43 2/3 lbs.

Finish No. 1.	Solid Brass, per opening.	\$85.20
Finish No. 2.	Brass Plated, per opening	70.80
Finish No. 3.	Black, per opening.....	62.80

Discount .....



AIRWAY



"A Hanger for any Door that Slides"

# R-W No. 312 "AiR-Way" Multifold Window Hardware

For Opening Not Exceeding 16' 6" Wide by 5' High

**10-Sash**  
**5 Sash Folding Each Way**  
Two 5-Sash Sets Will Accomplish the Same Results

We recommend that sash be about 20" wide. Set includes all hardware necessary for installation, including Brass Track and Brass Threshold. All parts except Track and Threshold are packed in one box. Tracks and Thresholds are sent in two lengths, each 8'3" long.

## Material Furnished

20 Sash Links	8 Safety Locks
4 Butt Hinges	2 Sill Stops
16 Rubber Stops	8 Chafing Plates
10 Fasteners with Bow Handles	2 Pcs. Upper Track
1 Pkg. Assorted Screws	2 Pcs. Lower Track
1 Set of Erection Details	2 Pcs. Threshold

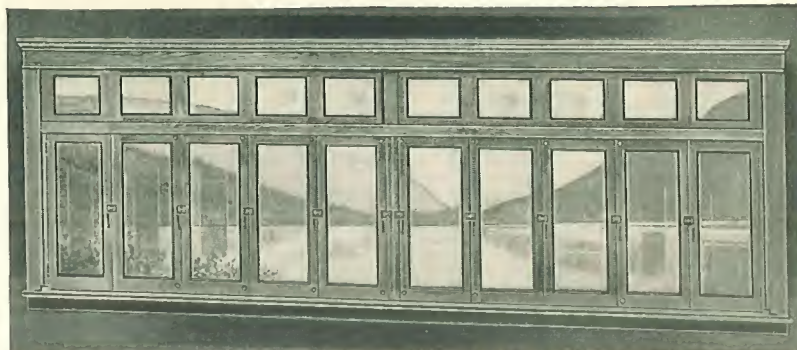
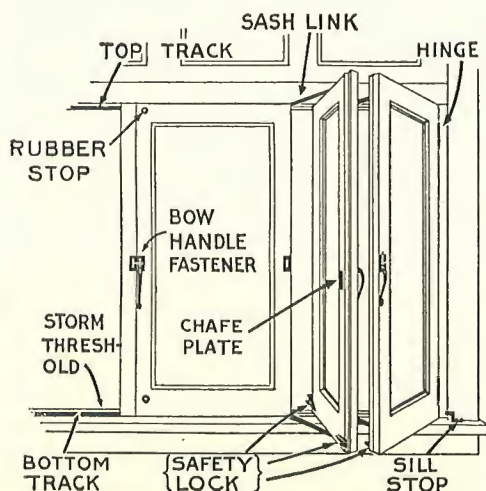
## List Price

*10-Sash Set*—Hardware complete for opening not over 16'6" wide (between finished frames) x 5' high.

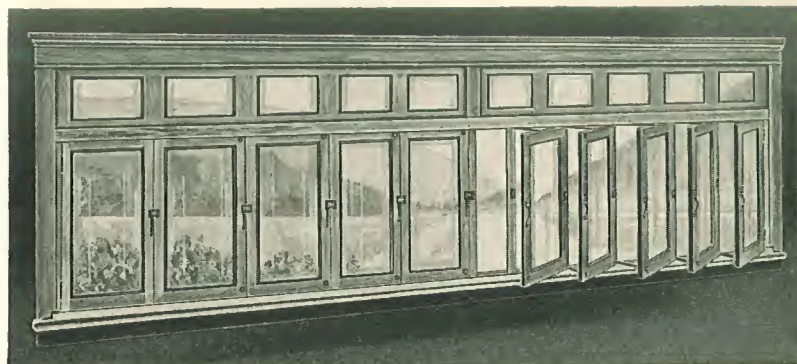
Weight, per set, 48 lbs.

Finish No. 1. Solid Brass, per opening.	\$103.20
Finish No. 2. Brass Plated, per opening	86.20
Finish No. 3. Black, per opening.....	76.20

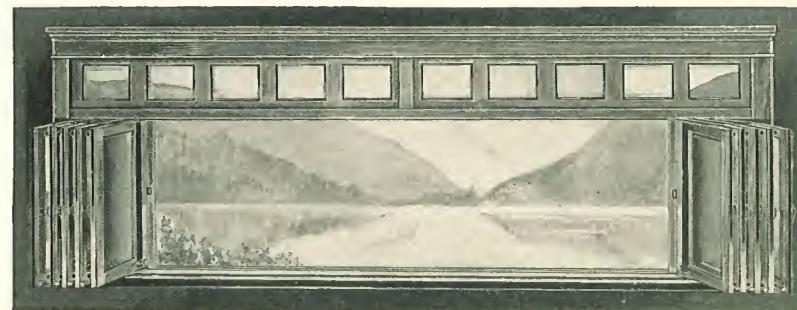
Discount .....



Sash Closed



Sash Half Closed, Half Partly Open



Sash Wide Open

Throw open the side of your house . . . and let the outdoors in!

AIRWAY



**Tear Out and Mail Direct to the R-W Mfg. Co., Aurora, Ill.**

## “AiR-Way” Specification Sheet

Please fill out this information blank so that we may be advised more fully regarding your requirements. If more than one opening is to be fitted please answer the first group of questions separately for each opening. We suggest also that you send a rough sketch of your plans with this sheet.

20

How many openings do you wish to equip? \_\_\_\_\_

## OPENINGS

[illegible]

- a. Total number of sash in each opening.....
- aa. Width of rough opening for frames.....
- aaa. Width of finished opening inside of frame.....
- b. Do you wish the sash all to open one way.....  
or part of them to open each way.....
- d. If the sash are to fold both to right and left, how many will fold  
to the right?.....  
And how many to the left?.....
- e. Height of each sash.....
- f. Width of each sash.....

(To Determine Width of Each Sash: From the width of rough opening deduct allowances given below of the framework, jambs and mullions. Next, divide this remaining space by the number of sash desired, answer will be the width of each individual sash. Individual sash should not measure over 24 inches wide.)

Sash widths are taken on the inside face. The overall width of sash is  $\frac{9}{16}$ " greater than width of inside face to allow for rabbetts.

## ALLOWANCES

WHERE  
SASH FOLD

	Part Each Way	All One Way
For standard design of "Air-Way" framework..... (2 $\frac{1}{4}$ " on each side)	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "
*For jambs and mullions..... (fixed and movable)	5 $\frac{7}{8}$ "	3"
<i>Total allowances to be deducted from rough opening, leaving net space to be divided equally among the several sash.....</i>	10 $\frac{5}{8}$ "	7 $\frac{1}{2}$ "

\*If calculating widths of sash from finished opening deduct these amounts only.

- eg. Please check finish desired:

No. 1 . . . . .  
No. 2 . . . . .  
No. 3 . . . . .

See bottom of page 11 for description of finishes.

Remarks: .....

Your name . . . . .

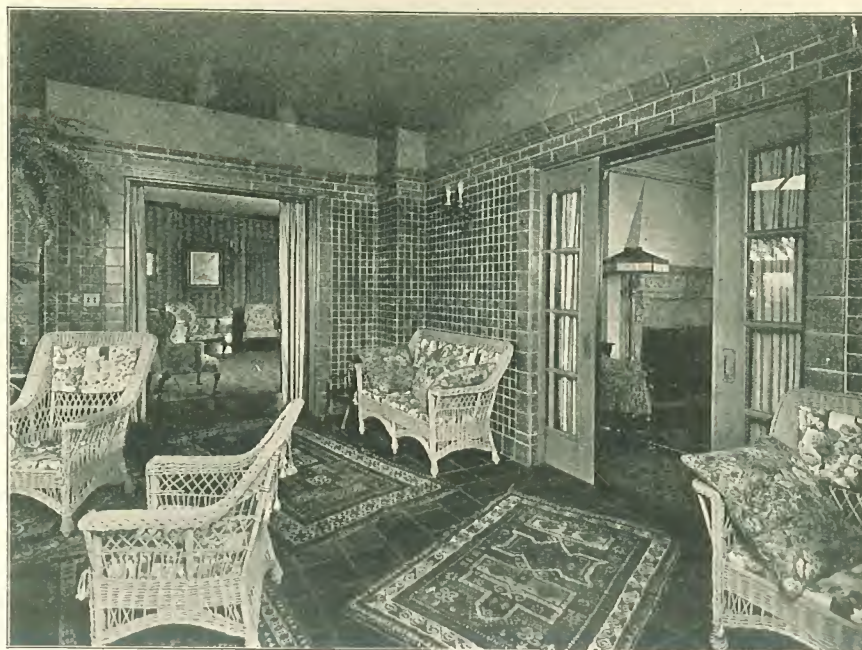
Address .....

Dealer's Name.....

Dealer's Address.....



French Doors  
With Their  
Glass Panels  
Are Quite  
Smart



They Add  
to the  
Attractiveness  
of Your  
Home

21

## Advantages of R-W Vanishing Doors

The advantages of vanishing doors over the common swing variety are so numerous and self-evident that we fear we may bore you with their enumeration. So we will be brief and mention only a few of the more important points.

We ask you to banish from your mind the impression gained in early childhood of the sliding doors that often required the united efforts of a strong family to make them operate.

That forerunner of the past half century of door hanger development is far removed from the present day silently vanishing door which disappears into the wall on adjustable ball-bearing hangers and wood-lined track. Today, a four-year-old child can easily open or close these doors.

The above illustration shows vanishing doors which operate upon R-W hangers and track. The utility and ornamental possibilities of having these doors vanish into the wall instead of swinging into the room are obvious. The doors interfere in no way with draperies, furniture, or fixtures of the home.

The advantages of vanishing doors over the common swing variety are so numerous and self-evident that we fear we may bore you with their enumeration. So we will be brief and mention only a few of the more important points.

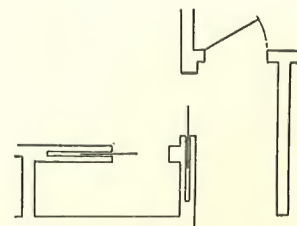
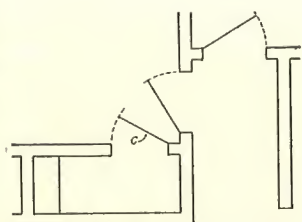
The wide opening between two rooms, which can be completely closed when desired, gives an effect of spaciousness which is most pleasing.

The use of vanishing doors is now becoming more general than ever before. Space is one of the most desired features in the bungalow, apartment or house and architects are taking advantage of the space saving features, which vanishing doors permit, and are specifying them in their plans. Confer with your architect on this point before you make a decision.

### How Space Is Saved

The plan to the left shows three swinging doors; two of which open toward each other. These could be improved by the installation of vanishing doors, as illustrated to the right.

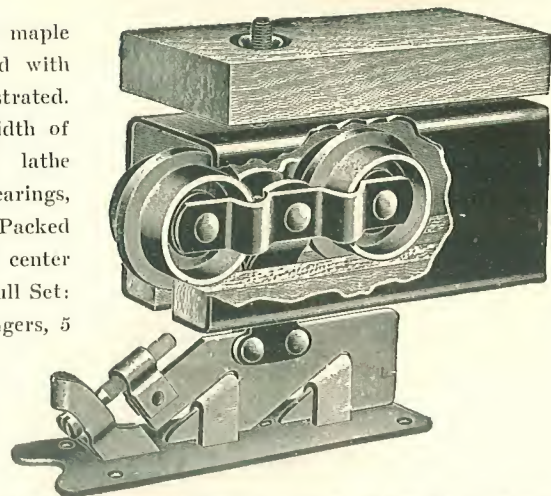
The occupants of thousands of apartments, particularly in our larger cities where space is at a premium, have found it necessary to substitute hanging drapes in places like this, where closet doors interfere with access to the closet.





## R-W No. R-122 "Royal" Ball-Bearing Trolley House Door Hanger

Track: No. 16 gauge steel, hard maple lined; No. R-122 type, furnished with wood header; adjustable as illustrated. Length of track equals twice width of opening. Wheels: Grey Iron, lathe turned;  $2\frac{1}{4}$  inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, Full Set: Hangers, 10 lbs.; Half Set: Hangers, 5 lbs.; Track, per foot, 3 lbs.



Distance top of door to bottom of heading timber,  $7\frac{1}{4}$  inches.  
Minimum width of wall pocket,  $2\frac{1}{4}$  inches.  
Track can be easily removed without injury to plastered walls.

### List Price of Hangers and Track

DOUBLE DOORS (Full Set)			SINGLE DOORS (Half Set)		
No.	Width of Opening	List	No.	Width of Opening	List
R122-24	4 feet.....	\$ 8.00	R122-12½	2½ feet.....	\$4.00
R122-24½	4½ feet.....	8.00	R122-13	3 feet.....	4.00
R122-25	5 feet.....	8.00	R122-13½	3½ feet.....	4.40
R122-25½	5½ feet.....	8.00	R122-14	4 feet.....	4.75
R122-26	6 feet.....	8.00	R122-14½	4½ feet.....	5.15
R122-26½	6½ feet.....	8.40	R122-15	5 feet.....	5.50
R122-27	7 feet.....	8.75	R122-15½	5½ feet.....	5.90
R122-27½	7½ feet.....	9.15	R122-16	6 feet.....	6.25
R122-28	8 feet.....	9.50	R122-16½	6½ feet.....	6.65
R122-29	9 feet.....	10.25	R122-17	7 feet.....	7.00
R122-210	10 feet.....	11.00	R122-17½	7½ feet.....	7.40
			R122-18	8 feet.....	7.75

No. R-122—Hangers for double doors, without track.....\$3.50  
No. R-122—Hangers for single doors, without track..... 1.75

*Discount*  
Note—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from list prices given for various openings. Order by number.

## R-W No. 11 Brass Bushed-Bearing House Door Hanger

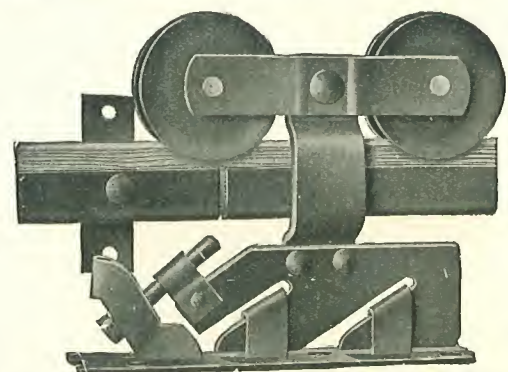
Track: Hard maple and steel; No. 9 type; full sets for 7-foot double opening; half sets for 4-foot single opening. No. 9 track is provided with cut-off slot one foot from each end, to allow for variation in size of opening. Wheels: Steel,  $2\frac{1}{2}$  inches diameter with vulcanized fibre centers, noiseless. Bearings, brass bushed. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, Full Set: Hangers,  $8\frac{1}{4}$  lbs; track,  $9\frac{1}{2}$  lbs. Half Set: Hangers, 4 lbs.; track,  $5\frac{1}{2}$  lbs.

### List Price

No. 11—Full Set, including track (14 ft.).....\$6.00  
No. 11—Half Set, including track (8 ft.)..... 3.00  
\*No. 9—Extra Track. Per foot..... .08

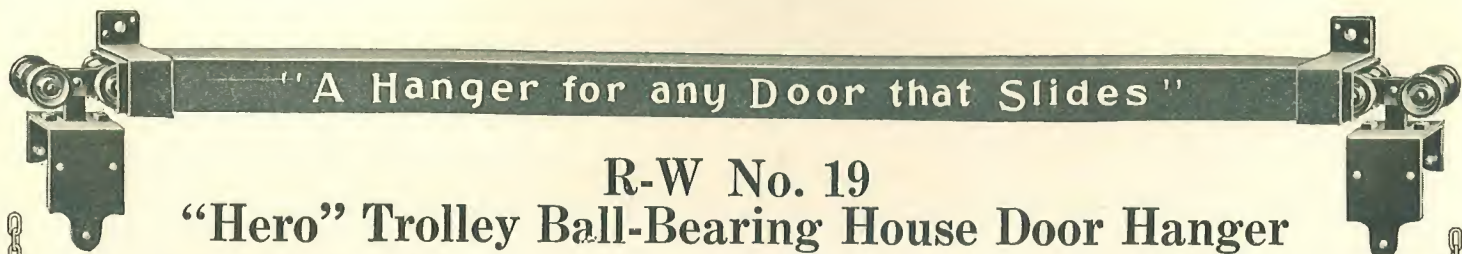
\*Note—No. 9 Track is made in 7 and 8-foot lengths only.

*Discount*.....

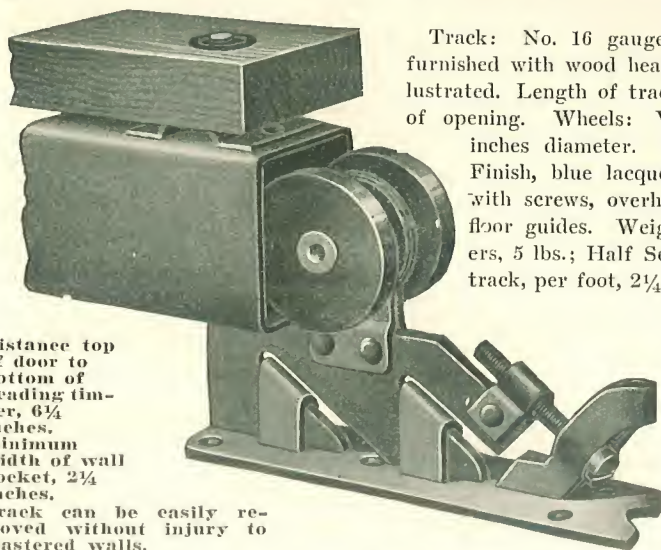


Clearance required above top of door, 7 inches.  
From top of door to top of track,  $3\frac{3}{4}$  inches.  
Minimum width of wall pocket, 3 inches.





## R-W No. 19 "Hero" Trolley Ball-Bearing House Door Hanger



Distance top of door to bottom of heading timber, 6 1/4 inches.  
Minimum width of wall pocket, 2 1/4 inches.

Track can be easily removed without injury to plastered walls.

Track: No. 16 gauge steel; No. 19 type, furnished with wood header; adjustable as illustrated. Length of track equals twice width of opening. Wheels: Vulcanized fibre; 2 1/8 inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, Full Set: Hangers, 5 lbs.; Half Set: Hangers, 2 1/2 lbs.; track, per foot, 2 1/4 lbs.



### List Price of Hangers and Track

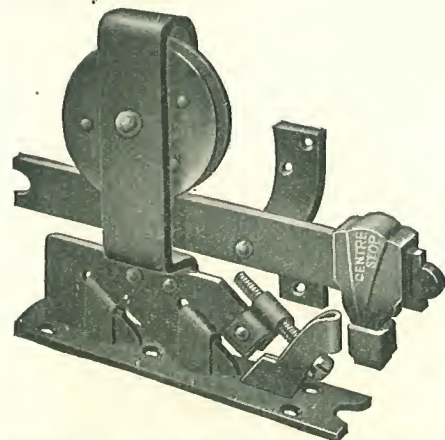
DOUBLE DOORS (Full Set)			SINGLE DOORS (Half Set)		
No.	Width of Opening	List	No.	Width of Opening	List
19-24	4 feet.....	\$6.00	19-12 1/2	2 1/2 feet.....	\$3.00
19-24 1/2	4 1/2 feet.....	6.00	19-13	3 feet.....	3.00
19-25	5 feet.....	6.00	19-13 1/2	3 1/2 feet.....	3.25
19-25 1/2	5 1/2 feet.....	6.00	19-14	4 feet.....	3.50
19-26	6 feet.....	6.00	19-14 1/2	4 1/2 feet.....	3.75
19-26 1/2	6 1/2 feet.....	6.25	19-15	5 feet.....	4.00
19-27	7 feet.....	6.50	19-15 1/2	5 1/2 feet.....	4.50
19-27 1/2	7 1/2 feet.....	6.75	19-16	6 feet.....	4.75
19-28	8 feet.....	7.00	19-16 1/2	6 1/2 feet.....	5.00
19-29	9 feet.....	7.50	19-17	7 feet.....	5.25
19-29 1/2	9 1/2 feet.....	7.75	19-17 1/2	7 1/2 feet.....	5.50
19-30	10 feet.....	8.00	19-18	8 feet.....	5.75

No. 19—Hangers for double doors, without track.....\$3.00

No. 19—Hangers for single doors, without track..... 1.50

#### Discount

*Note*—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from list prices given for various openings. Order by number.



## R-W No. 12 "Model" Roller-Bearing House Door Hanger

Track: 1 1/4 x 3/8-inch steel; No. 63 type; full sets for 7-foot double opening; half sets for 4-foot single opening. Wheels: Steel, 3 3/8 inches diameter with vulcanized fibre centers. Bearings, steel rollers. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weights, Full Set: Hangers, 9 1/4 lbs.; track, 14 lbs. Half Set: Hangers, 4 1/4 lbs.; track, 8 lbs.

### List Price

No. 12—Full Set, including track (14 ft.).....	\$6.00
No. 12—Half Set, including track (8 ft.).....	3.00
*No. 63—Extra Track. Per foot.....	.08

\**Note*—No. 63 Track is made in 4, 6, 7, 8 and 10 ft. lengths.

*Discount*.....

Clearance required above top of door, 7 1/2 inches.  
From top of door to top of track, 3 3/8 inches.  
Minimum width of wall pocket, 3 inches.

## Vanishing House Door Hangers





## Double Adjustment an Important Part of R-W Vanishing House Doors

24

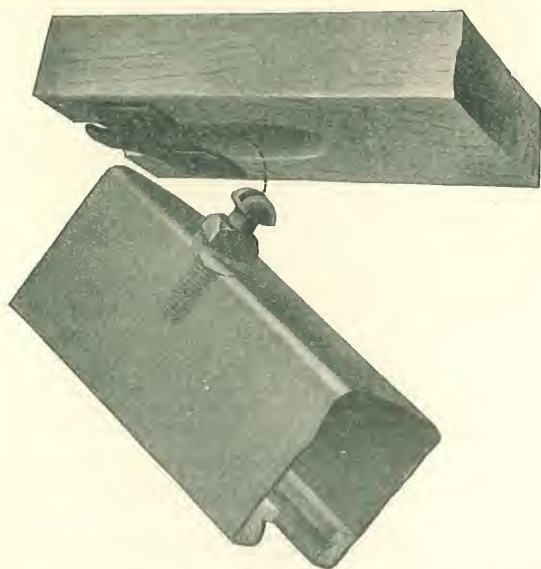


Fig. B. Close View Showing Slotted Plate and Adjusting Screw.

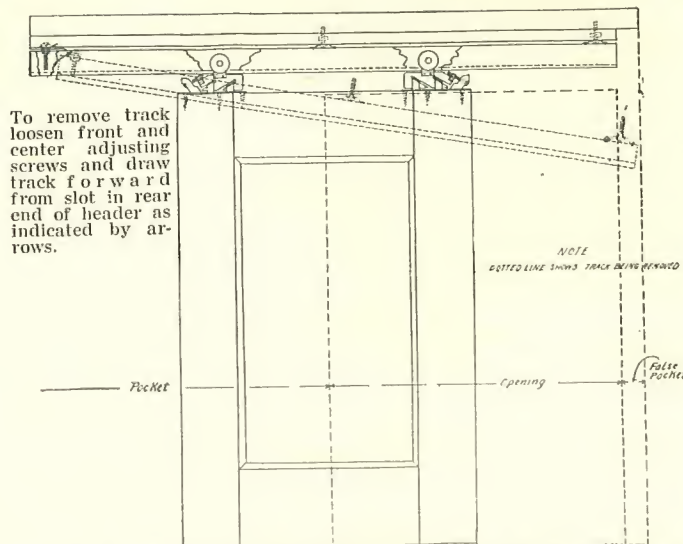


Fig. A. Elevation of Doorway Structure Showing Track Installed, and (Dotted Lines) Unfastened From Header. Slotted Plate and End Adjusting Screw Suspend Track at Back End. (See Upper Left Hand Corner).

Frequently houses settle after vanishing doors are installed. As a result the doors stick at the bottom and the track becomes out of alignment with the threshold.

That's the point where the accessible adjustment provided in R-W door hangers of the header type is appreciated.

Usually the proper adjustment of the door can be made by turning with a screw driver the accessible adjusting screw of the hanger at one or both edges of the sliding door (Fig. C).

Further adjustment may be secured by raising or lowering the track. This can be easily done by inserting a screw driver in the opening between the soffits through which the hanger pendant travels, and turning the accessible adjusting screws which suspend the track directly over the doorway opening (Fig. C).

Very rarely it is found necessary to raise or lower the end of the track located in the wall pocket. If it is necessary, the R-W House Door Hanger arrangement makes provision for the adjustment.

By moving the detachable parts of the soffits and jamps and unscrewing the hanger adjusting screws so that the hanger comes apart, the door may be lifted out and the track removed without difficulty. To remove the track it is only necessary to unscrew from the header the adjusting screws in the track over the opening (Fig. C), pull the track forward to disengage it from the slotted plate at the back end (Figs. A and B), and then withdraw it entirely from the pocket.

The adjusting screw at the back of the track (Fig. B) may then be regulated as required; the track again inserted into the pocket; the head of the adjusting screw at the back end of the track slipped into its slot in the header plate; the two screws over the opening screwed into the header—and the track adjustment is complete.

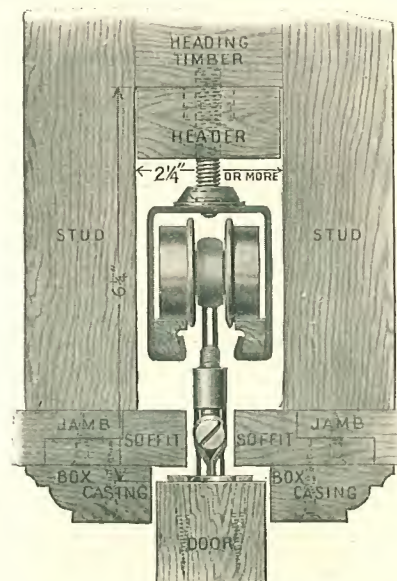
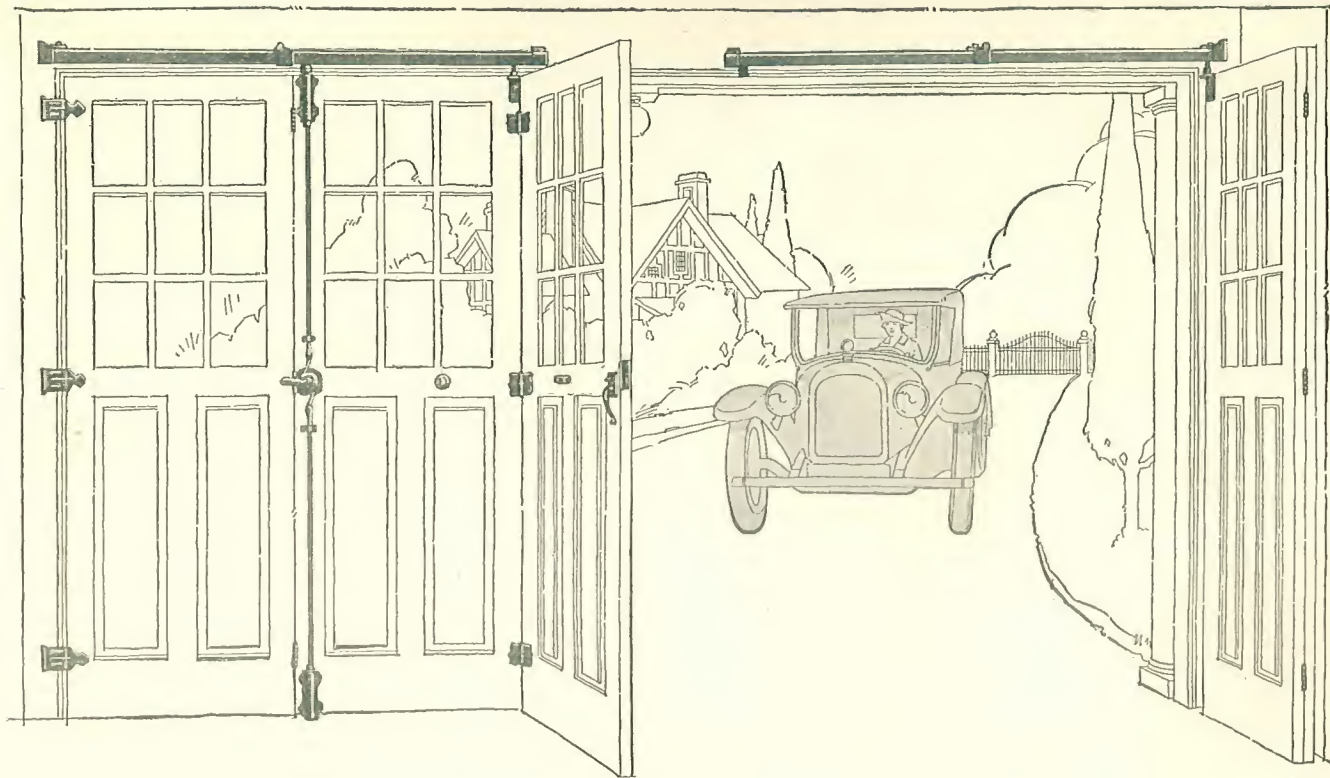


Fig. C. Cross Section of R-W Door Hanger Installation Showing Relative Positions of Hanger, Track, Accessible Hanger Adjusting Screw, Accessible Track Adjusting Screw, Header, Door, Soffit and Casing.



"A Hanger for any Door that Slides"

## The Most Important Part of Your Garage



25

WE believe the most important part of a garage is the doorway, and the method employed in opening and closing the doors. Of course, we make garage door hardware, so we may be prejudiced. But at that a more important part is hard to imagine, isn't it?

In any event the doors are subjected to very rough usage. They are exposed to the extremes of climatic conditions, blistering sun, bitter zero, soaking rains, warping heat . . . and high wind pressure. Some people treat doors harshly, often jerking, slamming, and sometimes accidentally backing their autos into them.

It is important that the doors be strongly constructed in the first place. But that is not half of it. They must fit snugly and tightly when closed, to keep out the wind, rain and cold. They must operate smoothly, easily and quickly, with a minimum of adjustment, attention or expense, from year to year. They must slide and fold inside the garage, flat against the wall, leaving a wide, clear opening.

We believe "Slidetite" garage doors to be the most perfect, from every standpoint, of any style upon the market today. We ought to know, because we have manufactured garage door hardware for years. We sell hardware for manipulating doors in almost every conceivable way. We know what our competitors make. Is it not fair to presume that if there was a better garage door equipment than "Slidetite" that we would make it? There are, of course, a few situations in which "Slidetite" can not be used to advantage. When that is the case we frankly tell you so, and advise you as to the best equipment suited for each case. In the majority of cases, however, "Slidetite" is the ideal installation for garage doors.

**Slidetite**  
Patented

**Garage Door Hardware**  
For Private and Public Garage Doors

**Garage Door Hardware**



**Slidetite**

Patented

**Garage Door Hardware**

For Private and Public Garage Doors

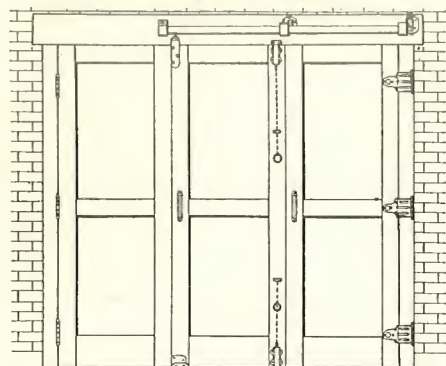
26



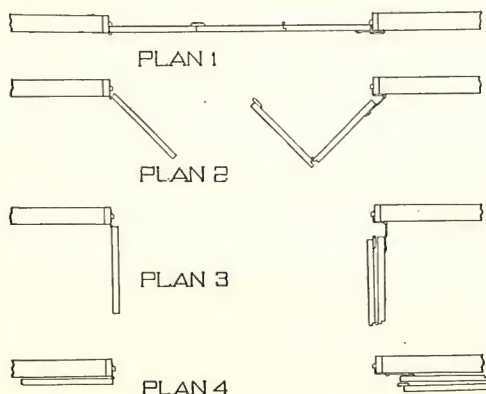
Interior view, showing application of No. 517 Bolt as used with three-door set



Exterior view of four-door set, showing garage under sun parlor



Elevation showing proper location of "Slidetite" three-door hardware, including R-W No. 514 Bolts.



Floor plans of three-door "Slidetite" doorway, showing doors closed, doors partially opened, doors open parallel with sidewalls, doors open parallel with front wall, giving absolute clearance from jamb to jamb.

**G**ARAGE doors equipped with this fixture fold and slide inside the building, requiring only minimum space. Recommended for doors not over three feet wide.

The 3-door "Slidetite" set of hardware makes an ideal equipment for the ordinary garage door-way, two of the doors folding to one side of the opening, the third door being hinged to the jamb or to the middle door. When desired, however, any number of doors from 4 to 10 in one opening can be used. A ten-door outfit will take care of an opening up to 30 feet wide.

Prices of complete sets do not include the lock for entrance door.

#### List Price—3 Door Sets

##### "Slidetite" R-W No. 435 Complete Sets

*3-Door Sets for openings not to exceed 9 feet wide and for doors weighing up to 125 pounds each.*

With No. 514 Top and Bottom Spring Bolts. Weight per set, 40 lbs. Price, complete.....\$14.00

With No. 514 Top Spring Bolts and No. 524 Cane Bolts. Weight per set, 49 lbs. Price, complete..... 14.00

With No. 517 Top and Bottom Cremone Bolt. Weight per set, 56 lbs. Price, complete..... 17.60

#### A 3-Door Set Consists of the Following Hardware

- |  |   |
|--|---|
| 1 No. 425-1 Hanger                                 | 2 No. 81-1 Bow Handles (1 is furnished when No. 517 Cremone Bolt is used) |
| 1 No. 435x31-C Center Bracket                      | 1 No. 271 Center Floor Guide  |
| 1 No. 435x31-E End Bracket                         | 2 No. 435-72 Bumper Shoes   |
| 1 No. 435x31-I Intermediate Bracket                | 2 No. 514 Top and Bottom Spring Bolts, or                                 |
| 1½ pair No. 435 Butt Hinges, Japanned              | 1 No. 514 Spring Bolt and 1 No. 524 Cane Bolt, or                         |
| 1½ pair No. 311 Half Surface Butt Hinges, Japanned | 1 No. 517 Top and Bottom Cremone Bolt                                     |
| 1½ pair No. 435 Surface Hinges, Japanned           |   |
| 7 feet No. 31 Track (1-7 feet)                     |   |

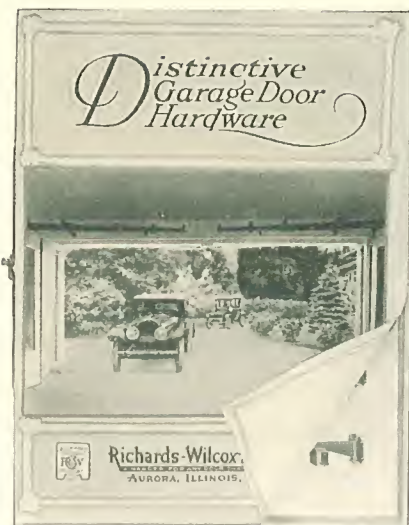


# "A Hanger for any Door that Slides"

## Slidetite

Patented

## The Last Word In Garage Door Hardware



The above catalog, showing our entire line of Garage Door Hardware, will be sent you on request.



"Slidetite" two-track, four-door hardware on double doorway showing doors in closed position, partially opened position, and wide open position. Illustration shows doors equipped with No. 517 Top and Bottom Cremone Bolt.

WE furnish all necessary hardware. Direction sheet, showing the details, furnished with each order. Packed, complete sets, in wood box, less track.

Intermediate and end brackets are adjustable. Brackets are adjustable to permit track to be set at angle suitable to thickness and position of doors. Hangers support and guide the end of the door and prevent sagging. Steel wheels, roller bearings. Vertical adjustment. Ball-bearing swivel pendants.

### List Price—4 Door Sets

#### "Slidetite" R-W No. 435 Complete Sets

*2-Track 4-Door Sets for openings not to exceed 12 feet wide, and for doors weighing up to 125 pounds each.*

With No. 514 Top and Bottom Spring Bolts. Weight per set, 83 pounds. Price, complete.....\$21.00

With No. 514 Top Spring Bolts and No. 524 Cane Bolts. Weight per set, 84 pounds. Price, complete..... 21.00

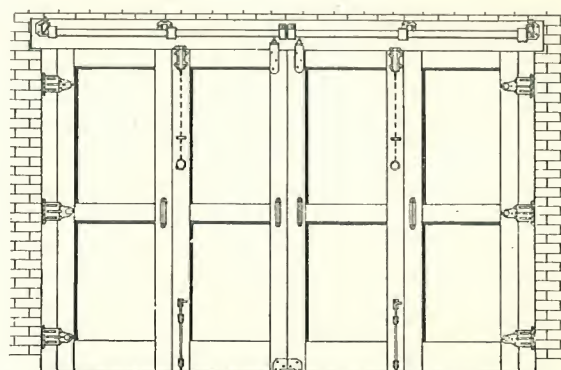
With No. 517 Top and Bottom Cremone Bolts. Weight per set, 97 pounds. Price complete..... 27.20

*Discount.....*

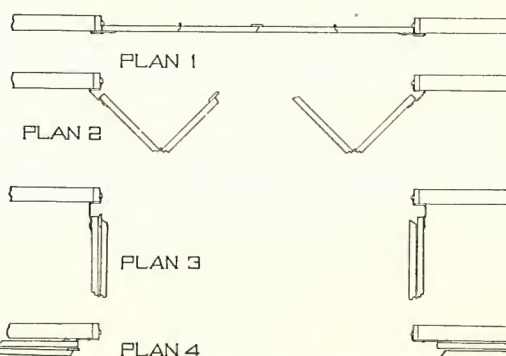
### A 2-Track 4-Door Set Consists of the Following Hardware

- |   |  |
|---|--|
| 2 No. 435-1 Hangers                               | 4 No. 81-1 Bow Handles (2 are furnished when No. 517 Cremone Bolt is used) |
| 2 No. 435x31-C Center Brackets                    | 1 No. 271 Center Floor Guide   |
| 2 No. 435x31-E End Brackets                       | 4 No. 435-72 Bumper Shoes  |
| 2 No. 435x31-I Intermediate Brackets              | 4 No. 514 Top and Bottom Spring Bolts, or                                  |
| 3 pair No. 311 Half Surface Butt Hinges, Japanned | 2 No. 514 Spring Bolts and 2 No. 524 Cane Bolts, or                        |
| 3 pair No. 311 Half Surface Butt Japanned         | 2 No. 517 Bolts.   |
| 14 feet No. 31 Trolley Track                      |  |

NOTE: "Slidetite" is made for openings having from 3 to 10 doors.

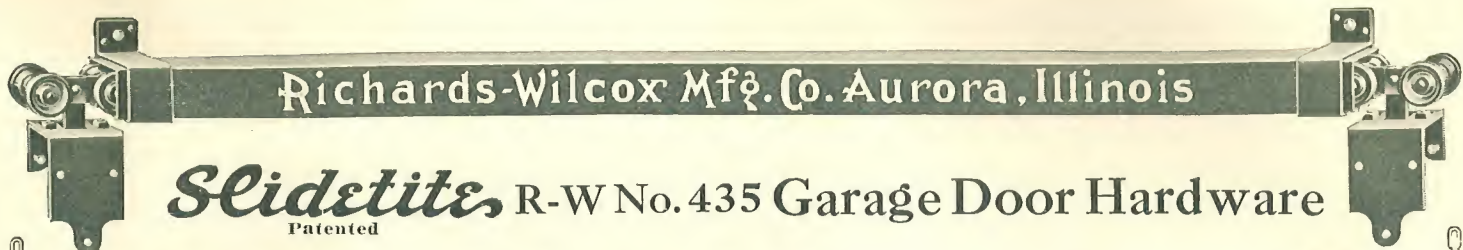


Elevation showing proper location of "Slidetite" two-track four-door hardware, including numbers 514 and 524 Bolts.



Floor plans of two-track four-door "Slidetite" doorway, showing (1) doors closed, (2) doors partially opened, (3) doors open parallel with sidewalls, (4) doors open parallel with front wall, giving absolute clearance from jamb to jamb.



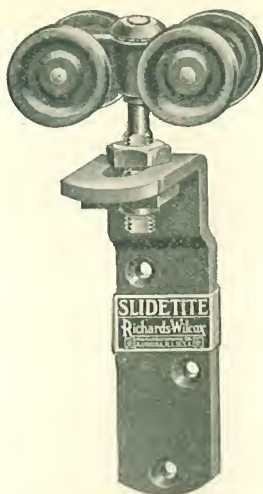


# Richards-Wilcox Mfg. Co. Aurora, Illinois

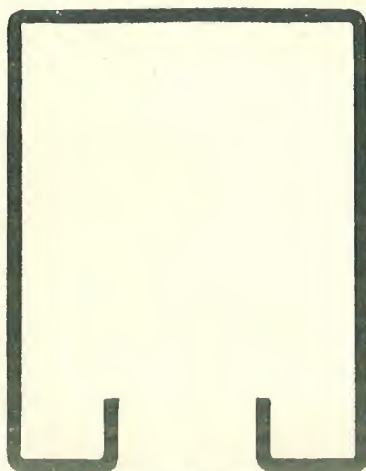
## *Slidetite* R-W No. 435 Garage Door Hardware

Patented

28



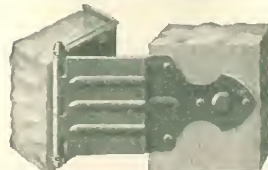
Hanger No. 435-1



Full Size Cross-Section of  
No. 435x31 Trolley Track



Cane Bolt No. 524-1



Half Surface Butt Hinge  
No. 311



Trolley Track No. 435x31



Bow Handle No. 81-1



Surface Hinge  
No. 435-2 1/2 "x4"



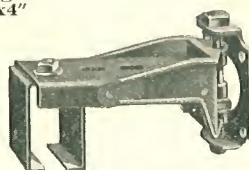
Butt Hinge  
No. 435



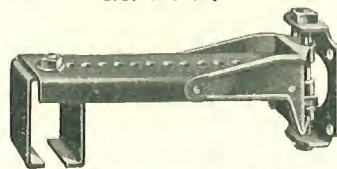
Center Floor Guide  
No. 271, and Bumper Shoes  
No. 435-72.



Center  
Bracket  
No. 435-C



Intermediate Bracket  
No. 435-I



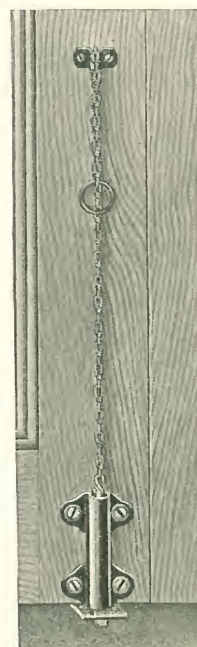
End Bracket No. 435-E

### Detail of Hardware and List Price of Parts

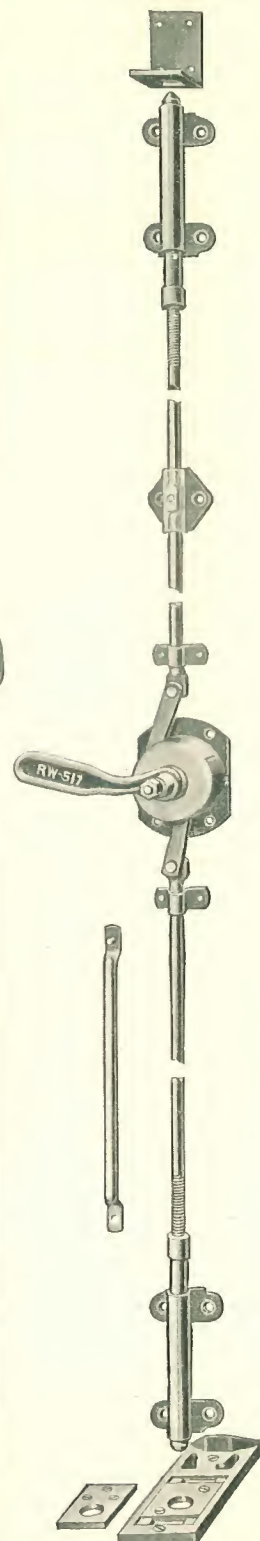
DESCRIPTION	With No. 31 Track—For Doors Weighing up to 125 Lbs. Each		
	Number	Price	Shipping Wt., Lbs.
Hangers, Roller Bearing, each.....	435-1	\$3.50	3 1/2
*Trolley Track, per foot.....	435x31	.33	1 6
Center Track Brackets, each.....	435x31-C	.30	1
Intermediate Track Brackets, each.....	435x31-I	.70	3 1/2
End Track Brackets, each.....	435x31-E	1.00	5
Surface Hinges, japanned, per pair.....	435-2 1/2 "x4"	.80	2
Butt Hinge, japanned, per pair.....	435-4 "x4"	.60	1 1/2
Half Surface Butt Hinges, japanned, p r pair.....	311-4"	1.60	3 1/4
Center Floor Guide, each.....	271	.96	2 1/2
Bumper Shoes, each.....	435-72	.12	5 oz.
Cane Bolt, each.....	524-1	.90	3
Spring Bolt, Top or Bottom, each.....	514-1	.80	2 1/4
Cremone Bolt, Top and Bottom, each.....	517	5.60	12 1/2

Note—Prices for Complete Sets of Hardware shown on pages 28 and 27.  
 \*Length of each track equals width of two doors plus approximately one foot.  
 Three door and one-track four-door openings require one track. Two-track four-door, five-door and six-door openings require two tracks.

Discount.....



Spring Bolt  
Top and Bottom  
No. 514-1  
Illustration  
Shows Bolt on  
Bottom of Door



No. 517  
Top and Bottom  
Cremone Bolt

Garage Door Hardware



"A Hanger for any Door that Slides"

R-W No. 235

Where Front Wall Space Is Limited Use—

# SlydaSyde Right Angle Garage Door Hardware

Patented

In a garage where front wall space is limited and where it is desired to secure maximum use of the floor space, "SlydaSyde" R-W No. 235 Garage-Door Equipment makes an unusually satisfactory installation.

Even very heavy doors operate lightly on "SlydaSyde" hardware.

"SlydaSyde" doors when open stand along the side wall at right angles to the opening, inside the building and require a negligible amount of space for their operation in swinging around the corner.

The hardware is adaptable to various doorway conditions and arrangements, including—Single Doors with space between the jamb and the side wall; Double Doors with space between the jamb and side walls; Single and Double Doors with jamb adjacent to the side wall; Pair of Doors Hinged Together for opening with space between the jamb and side wall; Three Doors Hinged Together.

The plans below illustrate only three of the nine situations where "SlydaSyde" hardware can be used to advantage.

Further information, together with prices, will be gladly furnished upon request.

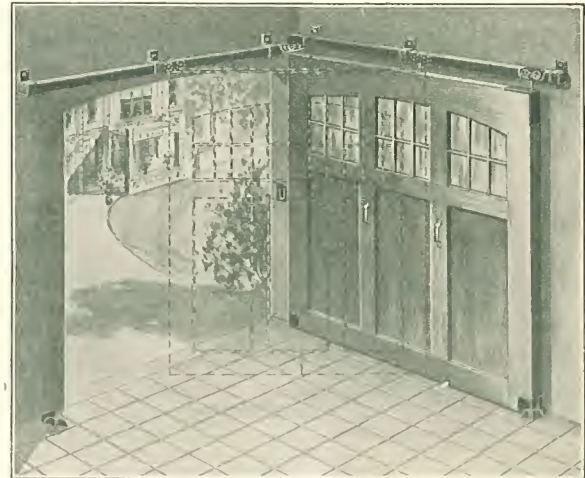
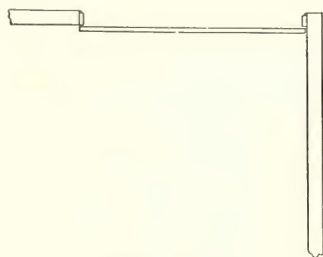
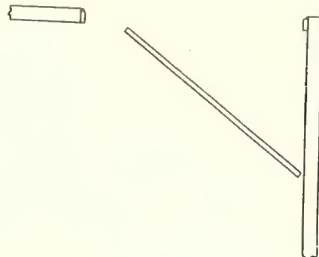


Fig. A-556. Illustration of interior of garage doorway equipped with single door "SlydaSyde" Hardware CC.

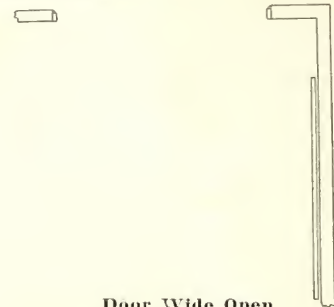
29



Door Closed

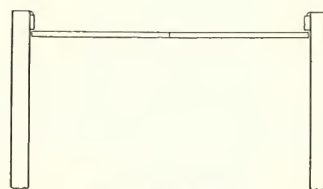


Door Partly Open

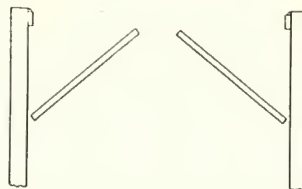


Door Wide Open

Above plans show how Single Door slides to one side



Doors Closed



Doors Partly Open

Double Doors, one of which slides to each side.



Doors Wide Open

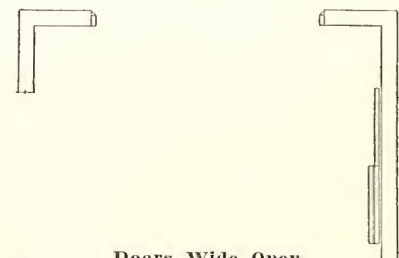


Doors Closed



Doors Partly Open

Three Doors Hinged Together, one folding and all sliding to one side.



Doors Wide Open

Garage Door Hardware



## "CornR-Wise" Is Another Popular Style

For Use Where Front Wall Space Is Limited

### R-W No. 635

The particular feature which distinguishes the operation of this style door from that on the preceding page is the exceptionally narrow space between the jamb and the side-wall in which this hardware can be installed. Where "SlydaSyde" doors on curved tracks require in most instances a clearance of 21 inches in the corners, "CornR-Wise" requires only 6 inches. Their operation in other respects is very similar.

It is impossible to show upon one page plans of all the various "CornR-Wise" doorway arrangements.

"CornR-Wise" is adaptable for openings where: Single Doors slide to one side; Double Doors, one of which slides to each side; Two Doors Hinged Together and sliding to one side, and Two Pairs of Doors Hinged Together, one pair of which slide to each side. The two sets of plans illustrated below show only two of the above combinations.

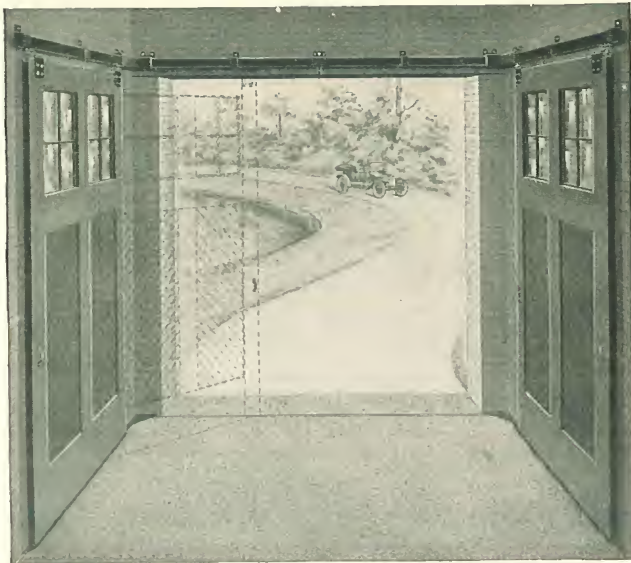
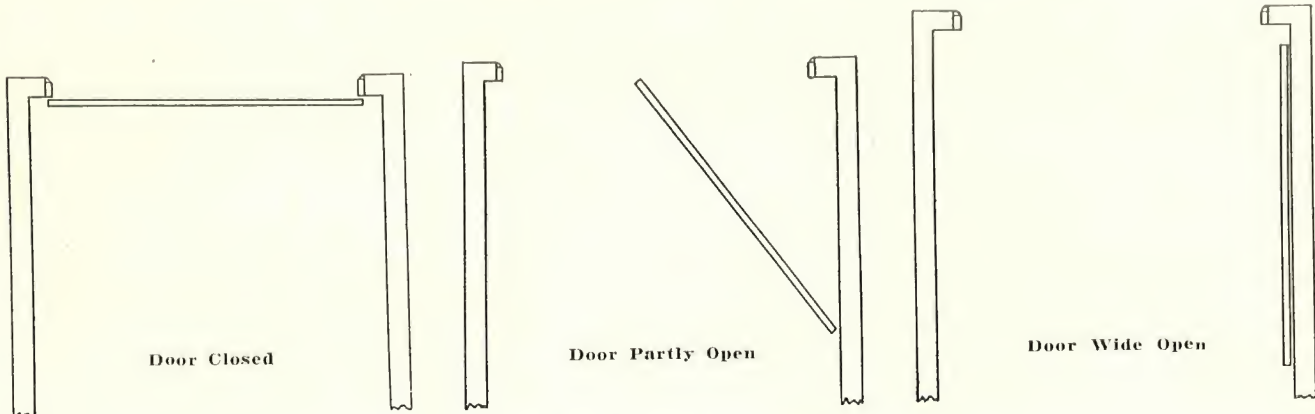


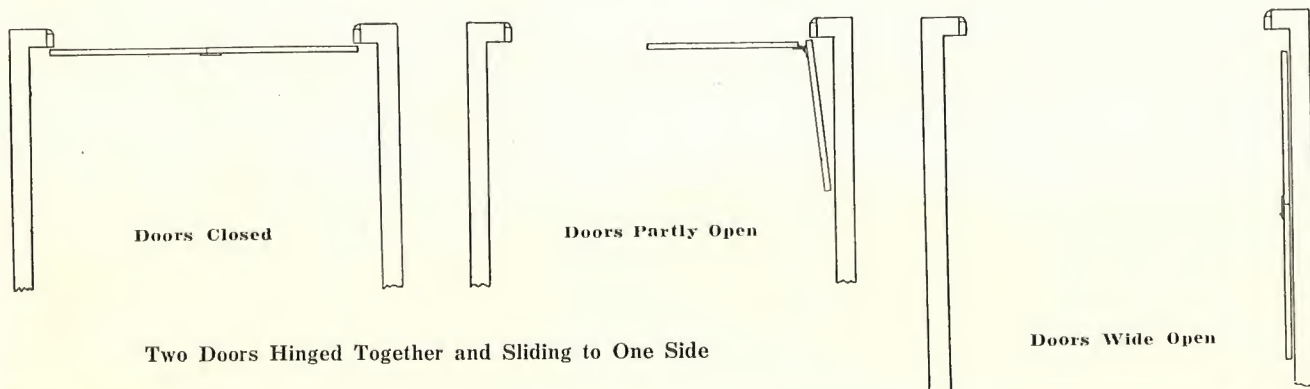
Fig. A-582—Interior view, doorway equipped with "CornR-Wise" hardware for double doors

*Further information together with prices will be gladly furnished upon request.*



Single Door Sliding to One Side

For openings up to 10 feet wide. For doors weighing up to 300 pounds each.



Two Doors Hinged Together and Sliding to One Side



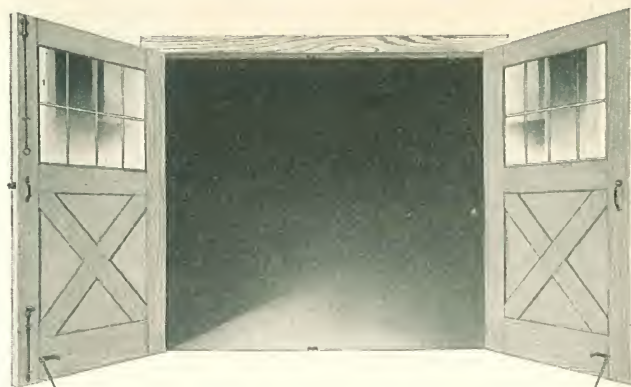
"A Hanger for any Door that Slides"

## R-W No. 534 Garage Swing Door Hardware

With 10-Inch Heavy Mortise Pintel Hinges



Exterior View. Note the heavy 10-in. Anti-Friction Hinges Furnished with this Set



Exterior View. Note how the No. 99 Door Dogs hold the Doors Open

31

All the hardware in this set is R-W Standard goods and built to give satisfactory service.

The Hinges should not be confused with the common T Hinges furnished with other sets, as these are high grade 10" Mortise Pintel, Steel Anti-friction Hinges.

The No. 514 Spring Top Bolt and No. 524 Bottom Cane Bolt will hold the door firmly when closed, and the latch furnished affords a handle as well as a plate for attaching padlock.

One No. 99 Door Dog is furnished for each door. These Dogs will positively hold the doors open at any desired position and prevent the wind from banging them around. Prevents accidents to fenders and head lights.

This set of hardware comes packed complete with all bolts and screws necessary for attaching, in strong box, and consists of the following:

- 1 No. 514-1 Spring Top Bolt
- 1 No. 524-1 Bottom Cane Bolt
- 1 No. 71-1 Bow Handle
- 1 No. 534 Latch
- 1 Pair No. 99 Door Dogs
- 3 Pairs No. 1036-10" Hinges
- 1 Package Screws and Bolts

List Price, No. 534, complete set.....\$13.00

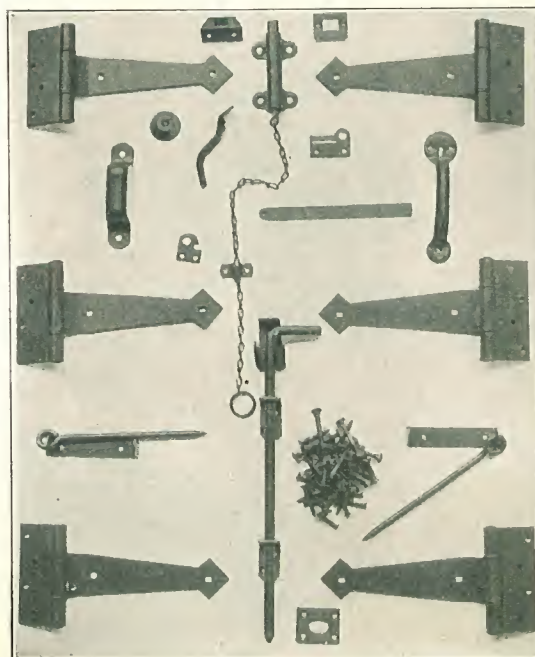
Discount.....

NOTE—If ordinary extra heavy reserved pad Tee Hinges are desired instead of the No. 1036 type, order set No. 334.

List Price, No. 334, complete set.....\$7.00

Discount.....

No Lock is included in this set of Hardware



Parts for R-W No. 534

Garage Door Hardware



# R-W No. 634 Garage Swing Door Hardware

With 18-Inch Heavy Mortise Pintel Hinges and  
Heavy Grip Handle Latch

32



Exterior View. Note the heavy 18-in. Anti-Friction Hinges Furnished with this set



Exterior View. Note how the No. 99 Door Dogs hold the Doors Open

Each item in this set of hardware for swing doors is quality hardware.

These hinges are heavy enough for large doors and are of the mortise pintel, anti-friction type.

The No. 350 Latch has two Extra Heavy Grip Handles, and Latch Thumb Lifts. A heavy Bow Handle is furnished for the other door; also No. 514 Top Spring Bolt and No. 524 Bottom Cane Bolt.

Two Lock Plates are furnished. One No. 99 Door Dog is included for each door which will positively hold the doors open at any desired position. These prevent the wind from banging the doors around. They prevent accidents to fenders and head lights.

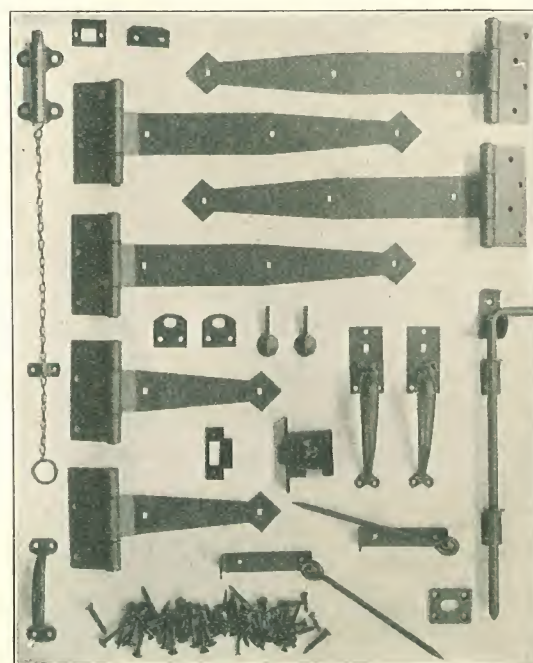
This set of hardware comes packed complete with all bolts and screws necessary for erection and consists of the following:

- 1 No. 514-1 Top Spring Bolt
- 1 No. 524-1 Bottom Cane Bolt
- 1 No. 81-1 Bow Handle
- 1 No. 350 Latch
- 1 Pair No. 99 Door Dogs
- 2 No. 436 Lock Plates
- 2 Pair No. 1036-18" Hinges
- 1 Pair No. 1036-10" Hinges
- 1 Package Screws and Bolts

List Price, No. 634 complete set.....\$18.25

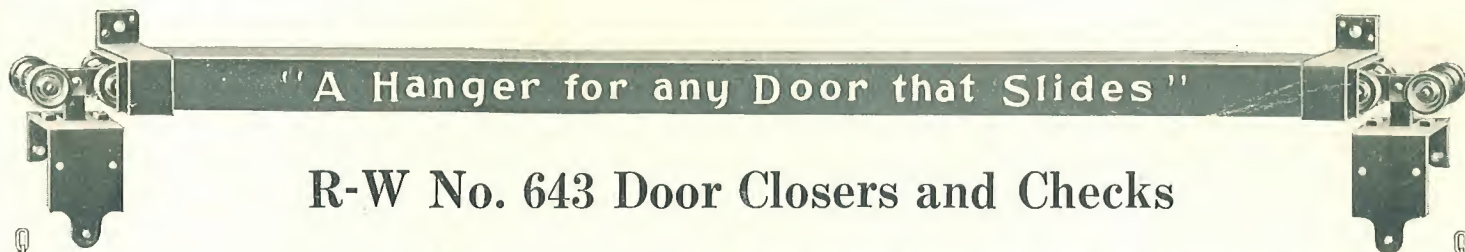
Discount.....

No Lock is  
included in this  
set of Hardware



Parts for R-W No. 634





## R-W No. 643 Door Closers and Checks

*Approved by the National Board of Fire Underwriters*

### General Construction:

The R-W Door Closer and Check employs the old, time tried crank and pitman checking mechanism, improved and simplified. In R-W Checks all working parts used in the checking cylinder are made of steel drop forgings.

### The Spring:

**Broken Springs.**—It is impossible to over-wind the spring in the R-W Check. While the tension of the spring can be adjusted to suit conditions by the pawl and tooth-dog, the limited number of teeth on the tooth-dog makes over-winding impossible. The spring power is a unit in itself, which can be removed if desired without taking check off the door.

### Checking Mechanism:

The checking mechanism is entirely separate from the operating mechanism. The spindle stuffing box is above the liquid level. The liquid is a non-freezing oil in which the main working parts are emersed, has high lubricating qualities and contains no alcohol.

### Reversible Feature:

The R-W Check can be changed from right to left by simply swinging the arm from one side to the other, the pawl that engages the toothed dog being so placed as to engage on either side. These features make the Richards-Wilcox the only truly reversible check on the market.

### General Features:

No special wrenches or tools are required in assembling or winding up the spring.

**Table of Sizes and Prices**

Size	Description of Doors	Weight, Each	List Price, Each
643-1	For screen and very light interior doors	6 lbs.	\$3.25
643-2	For light interior doors not exceeding 3 feet wide and vestibule doors not exceeding 2 ft. 6 in. wide. ....	7½ lbs.	4.25
643-3	For medium weight interior doors not exceeding 3 ft. wide, or light outside doors not exceeding 2 ft. 6 in. wide. ....	10 lbs.	5.00
643-4	For heavy interior doors or medium weight outside doors not exceeding 3 ft. wide. ....	12 lbs.	6.00
643-5	For heavy outside doors not exceeding 3 ft. 6 in. wide. ....	15 lbs.	8.00
643-6	For extra heavy outside doors and large doors operated against very strong drafts.	17½ lbs.	10.00

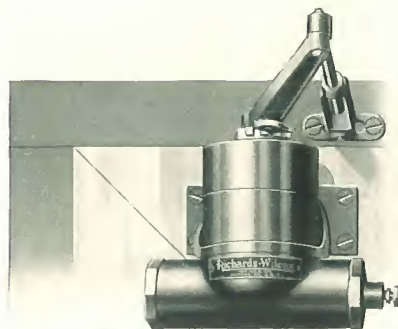
*Discount.....*

The above calculations are based on Standard doors. Extra heavy doors or doors subject to strong drafts require a check one size larger than specified. Checks are furnished regularly in gold bronze. Checks furnished in silver bronze or ivory black at the same prices as gold bronze. Prices for special finishes on application.

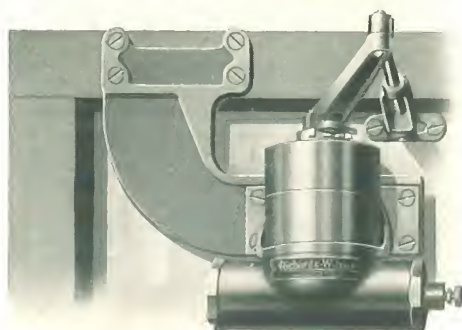
### Brackets

Prices of Different Styles of Brackets in Gold Bronze, Ivory Black or

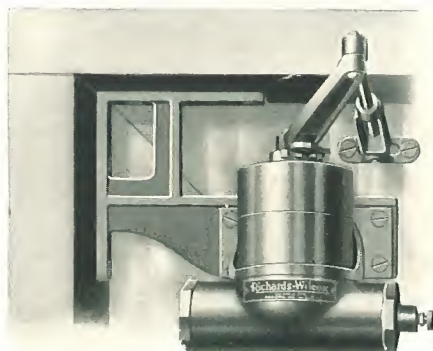
Style of Bracket	Size No. 1	Size No. 2	Size No. 3	Size No. 4	Size No. 5	Size No. 6
Soffit Bracket....	\$.50	\$.60	\$.70	\$.80	\$1.00	\$1.20
Flush Bracket....	.70	.80	1.00	1.20	1.40	1.50
Corner Bracket..	.80	1.00	1.20	1.50	1.80	1.90



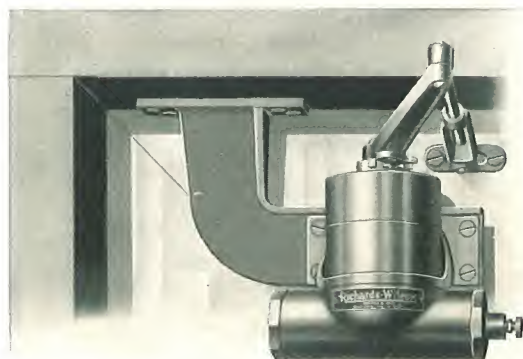
**Standard Attachment**



**Attachment by Flush Bracket**



**Attachment by Corner Bracket**



**Attachment by Soffit Bracket**





